i3 INTERNATIONAL™

SRX PRO

User Manual v.2.3

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INNOVATIONS AT THE SPEED OF THOUGHT ™

SRX-Pro User Manual - v. 2.3

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Important: When used in combination, the number of intelligent features per VMS (such as number of supported IP channels, IP mega pixel cameras, PACDM channels, Portal Card Access channels, LPR channels, VideoLogix/VisionCount channels, etc.) may be restricted from the maximum advertised number. Use only one type of intelligent features at-a-time in order to achieve maximum advertised potential of the VMS. Same principle applies when combining different models of IP cameras, mega pixel cameras, and different resolution and/or frame rate settings on the same VMS unit.

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1 SRX-Pro Server

Topics Covered

- Introduction
- SRX-Pro Server Installation/Upgrade
- Starting SRX-Pro Server
- Configuring SRX-Pro Server
- Search and Playback on SRX-Pro Server
- Backup on SRX-Pro Server

1.1. Introduction

1.1.1. Welcome

Thank you for purchasing our SRX-Pro Video Management System (VMS), a product of i³'s Digital Video Recording Technology. SRX-Pro is a registered trademark of i³ International.

This manual provides the step-by-step user guide for SRX-Pro Server, SRX-Pro Remote, WebSearch and SRX-Pro Player software.

With any further questions or concerns, visit our website at http://www.i3international.com or contact our technical support team at 1-877-877-7241.

1.1.2. General

The SRX-Pro User Manual, this version and all previous and subsequent versions, are products of i³ International. Copyright of this manual belongs to i³ International, and may not be reprinted or reproduced without prior written permission. If the system needs to be modified or repaired, a certified i³ Dealer/Installer must be contacted. Otherwise, the system warranty will be voided. With any problems or questions regarding our product, contact your local i³ Dealer/Installer. This product is certified for domestic and industrial use: TUV certified for Europe, and cULus certified for the USA and Canada.

1.1.3. Unpacking (VMS models only)

Read this section if you have purchased an i3 Rackmount or Compact Wallmount VMS system.

To unpack the VMS, follow these steps:

1. Place the box on a flat, clean surface
2. Remove the box by pulling and lifting the system up with both hands
3. Place the system down carefully
4. Read the User Manual thoroughly before installing the system
5. Make sure all the parts listed below have been included:

Typical Rackmount (RM) HVR

Typical Compact Wallmount (WM) HVR

Typical Annexxus 360 HVR

Rack Ears and Handles
(RM models only)

Video pigtail cable - 10 or 16 BNC inputs depending on the model (not included with all models)

Audio pigtail cable - 4 or 8 RCA inputs depending on the model (not included with all models)

Wallmount Bracket
(CW models only)

Keyboard

USB Mouse

Power cord

Additional accessories:

- 4 black bracket screws, 16 small silver hard drive screws, 2 SATA keys (with RM units only)
- System recovery DVD (also taped to the inside of the VMS top cover)
- SRX-Pro Software & Utilities DVD)
- Motherboard CD(s)
- Video card driver CD (not included with all models)
- Additional accessories may vary as per customer order

1.1.4. Precautions (VMS models only)

Warning

i³ systems run on the Windows™ 7 Embedded operating system. All i³ VMS systems come with pre-installed i³ Software: i³ SRX-Pro Server, SRX-Pro Player, and PACDM™ (optional). Do not install any additional software not recommended by i³ International on this system. The VMS should not be used as a personal computer. Doing so will jeopardize the performance of the SRX-Pro software and may result in a system crash.

When selecting a storage location for the system, be sure to avoid:

- excessive heat, such as direct sunlight or heating appliances
- moisture, dust, and smoke
- magnetic fields or electrical waves
- temperatures below 5° Celsius or 41° Fahrenheit
- any obstructions to system ventilation holes

Before installing this system, always ensure the:

- power source is located within 3 feet or 1 meter of the UPS
- power is switched off (**Do not plug the DVR unit in.)
- system and its connecting cables have sufficient space
- system is placed on an even surface
- system is situated far from electronic equipment such as microwaves, radios, fridge compressors, or any type of wireless equipment such as a telephones or cell phones)
- system is at room temperature (18° - 25° Celsius or 64.4° - 77° Fahrenheit)

Replaceable batteries

CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

Restricted Access Location

This equipment is intended for installation in Restricted Access Location.

Rackmount VMS Installation Safety Instructions

A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

C) Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

D) Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

E) Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

1.1.5. Setting up SRX-Pro (VMS models only)

Before installing SRX-Pro VMS, ground yourself. This will remove any static electrical charge your body might be carrying. **Before powering up the VMS, connect all cables and peripheral devices first. Uninterrupted power supply (UPS) must be used with the i³ VMS; otherwise, all warranties will be voided.**

To set up the SRX-Pro VMS, do the following:

1. Plug in the mouse and keyboard.
2. Plug in the monitor VGA cable.
3. Plug in all the BNC video cables (if applicable).
4. Plug the power cable into the VMS. (Do NOT power up)
5. Plug the power cable into the UPS (uninterrupted power supply).
6. Power up the system.

Step 1: Plug the mouse and the keyboard into the USB ports on the motherboard.

Step 2: Plug the monitor cable into the VGA connector on the video card (or on the motherboard for the systems with on-board video only)

Step 3: Connect the BNC Cables to the BNC Ports on the BNC board in the back of the unit or to the BNC ports on the video pigtail cable (if applicable). Begin connecting the BNC video cables to the i³ server's BNC ports. Ensure they are secure and locked into position. Once completed, ensure that the 75Ω impendance dip switches are in the upward position. This is necessary in order to terminate the video signals.

NOTE: The dip switch terminals are located below the Loop Out port on the Rackmount, and below the video in/out ports on the Compact Wallmount chassis.

Step 4: Connect the power cable to the power supply on your VMS.

NOTE: At this point, locate the power switch next to the power plug and make sure it is in the OFF position.

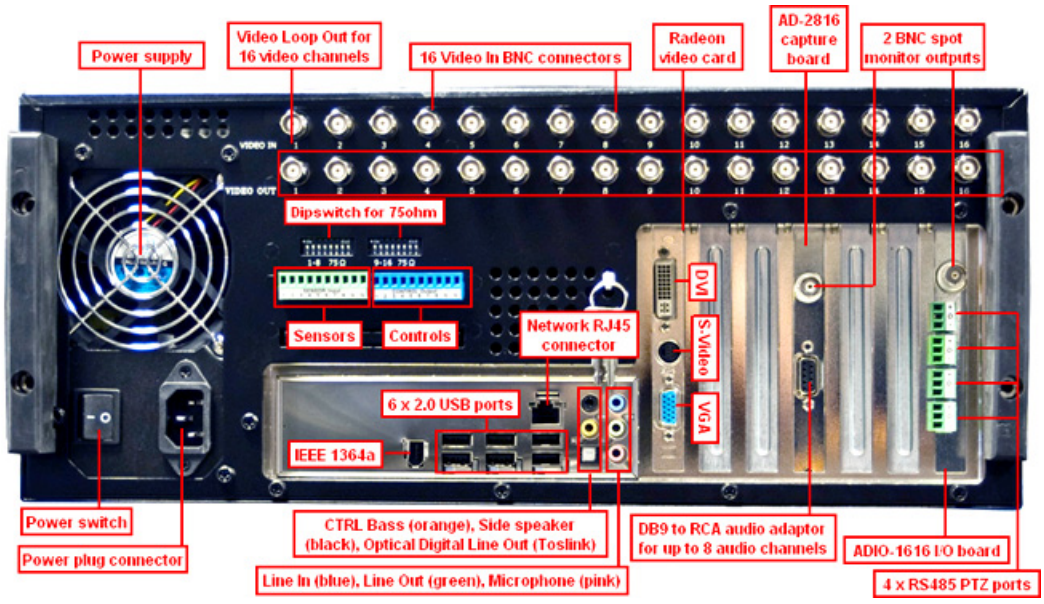
Step 5: VERY IMPORTANT! CONNECT THE POWER CABLE TO A UPS (UNINTERRUPTIBLE POWER SUPPLY). PLEASE NOTE: AN UNINTERRUPTIBLE POWER SUPPLY (MIN. 500VA) MUST ALWAYS BE USED; OTHERWISE ALL WARRANTIES WILL BE VOIDED.

Step 6: Turn the power switch in the back of the system to the ON position. The system will then power on automatically. If this does not happen, press and hold the power switch for 2 seconds. The system will then power up.

NOTE: The power switch is located at the front of your VMS (toggle button switch)

1.1.6. VMS Rear View

The following diagram displays the back of the VMS. The following is the typical Rackmount VMS model. The diagram will vary based on the VMS model.



1.1.7. Core Features

These are the key features that can be found in this latest version of SRX-Pro Server. For a more detailed explanation of features and functionality, refer to the appropriate section in the manual.

Warning

When used in combination, the number of IP cameras and megapixel cameras may be restricted from the maximum advertised number. Use the same model of IP cameras/megapixel cameras in order to achieve maximum advertised potential. Same principle applies when combining different resolution and/or frame rate settings on the same unit.

Important

Sensor, Control and External Monitor functions are not supported by this software version.

1. Channel-oriented system design (as opposed to camera system design)
2. Supports a total of up to 32 IP channels, one type only (not applicable to Megapixel cameras). The total number will be reduced if different IP source types are used.
3. Supports up to 480 frames-per-second rate at 720x480 resolution
4. Supports Individual Search of recorded data. This allows the user to select a different time for each channel to playback.
5. Supports encrypted remote configuration in line with US security standards.
6. Supports emergency frame function
7. Supports text overlay and Video Analytics on all IP video channels.
8. Supports flexible Remote site management through DVR/channel grouping and sorting function.
9. Supports generic ip interface that simplifies the process of adding integrated IP and Megapixel cameras, for the full list of integrated IP and Megapixel cameras please visit our website [http://i3international.com/traininglibrary/documents/english/gipi%20integrations/gipi%20master%20integration%20list.pdf]

1.1.7.1. Channel oriented system

SRX-Pro Server uses the channel-oriented system design, where a channel is represented by a virtual data path, which in turn can be associated with any number of any data sources and/or events (such as audio input or Motion Detection). This approach allows for very flexible configuration. For example, two channels can record the same video input based on different user settings. As a result of this approach, SRX-Pro Server users can duplicate the same video input on several channels when necessary.

1.1.7.2. Software Protection Key (SPK)

Software Protection Key (SPK) is a USB hardware device that protects the SRX-Pro Server software from being used on an unauthorized system. This device is installed inside of your VMS/NVR unit or is shipped together with your SRX-Pro Server software package when bought separately. If you have purchased SRX-Pro Server software package to be used on your own NVR system, make sure to plug in the SPK device into a USB port before installing SRX-Pro Server software.

SPK is programmed by the manufacturer for each unit. Software Protection Key controls the number of video channels, number of audio channels (where applicable), frame rate, Video Analytics and number of POS lanes available to the user. SPK configuration may be upgraded remotely to increase the supported number of channels/frame rate, video analytics, etc.

Without a proprietary SPK, SRX-Pro Server will not run. SPK must stay plugged in at all times. Never remove the SPK from the unit or attempt to use the same key on different unit(s).

1.1.7.3. Software Limitations

Max. recording speed at **320x240**/**352x240**/**640x240**/**704x240** = 720 fps

Max. recording speed at **640x480**/**704x480**/**704x480** = 480 fps

Max. number of Ax301C2M/Ax301D2M cameras supported by SRX-Pro Server that can be used at the same time maximum 12 c2m/d2m per system

The maximum number of supported IP megapixel cameras per system will depend on the resolution and frame rate configured for each camera.

1.2. SRX-Pro Server Installation/Upgrade

Note
SRX-Pro Server and Remote v.1.500 and up require .NET 3.0 framework.

SRX-Pro Server software is the proprietary software developed by i³ International. The software installation package is shipped on CD that comes with the order. Where software has been purchased separately for NVR applications, ensure that the HASP drivers are installed and HASP key is properly plugged in into the customer NVR server.

Note that drives/partitions C:\ and D:\ are not available for video recording, therefore the system must have at least one additional drive/partition to be allocated for video recording. For more information on allocation process and SRX-Pro storage structure, please read Storage Setup section.

If upgrading from the SRX-Pro Server version 1.405 or lower, make sure to install all required components first.

The SRX-Pro Server may be upgraded the traditional way (no internet connection required) or via Server Update function (internet connection required).

Prior to installing SRX-Pro Server, ensure that the minimum hardware requirements are met for the proper functioning of the SRX-Pro Server software.

Minimum Hardware/Software Requirements:

- **i3 Software Protection Key (SPK)** must be present
- **NET 3.0 framework** must be installed onto the system
- **Microsoft Visual C++ 2005 SP1 Re-distributable Package (x86) version 8.0.56336** must be installed onto the system
- **OS:** Windows XP Embedded/Pro/Windows 7 Embedded/Pro
- **CPU:** Core 2 Duo
- **Graphics:** ATI 128 MB Video Cards
- **RAM:** 2 GB RAM DDR2
- **Hard drives:** only SATA2 Hard Drives may be used. Minimum of 3 drives or partitions. Drives/partitions C:\ and D:\ cannot be used for video recording.
- **Recommended motherboards:** Intel DG41TY, Intel DH55HC, Intel DP35DP, Intel DG43NB, Intel S1200BTL
- **Network:** Gbit Network, 1Gbit 3M Switch (approved and recommended)
- **Nero:** If your SRX-Pro Server or Remote software is running on Windows XP, use Nero version 6.6.1.15 only. **If your SRX-Pro Server or Remote software is running on Windows Vista or Windows 7, use Nero version 8 only**. When running Nero 8 to perform video backup, remember that the CD/DVD media may be written to only once

  SRX-Pro Server and Remote software relies on Nero software to perform all backup functions, therefore the supported Nero version must be installed onto your computer.

  Provided the required Nero software version has not been previously installed on your computer, you must install the correct version of Nero software before using SRX-Pro Server and/or Remote.

If you are upgrading your VMS to SRX-Pro, v. 2000 from the earlier version (v. 1.405 or below), the following changes must be made to your system first:

1. .NET 3.0 framework must be installed onto the system
2. DVR's capture card drivers must be upgraded to version 3.4 (if applicable)
3. Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) version 8.0.56336 must be installed onto the system

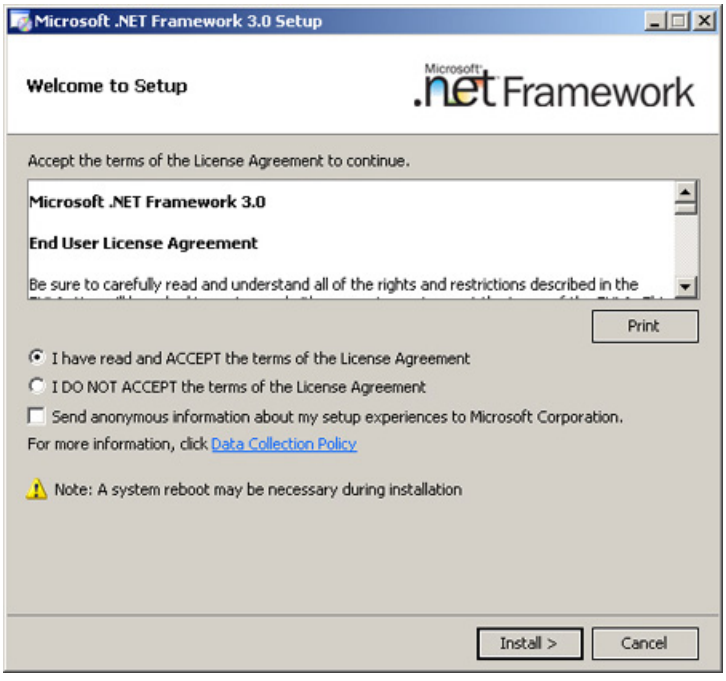
1.2.1. Installing .NET 3.0 Framework

The required .NET 3.0 framework will be installed on all new DVRs during the production stage, however if your DVR has an earlier version of SRX-Pro series software, you must install .NET 3.0 framework before upgrading your SRX-Pro Server software to version 1.500 and up.

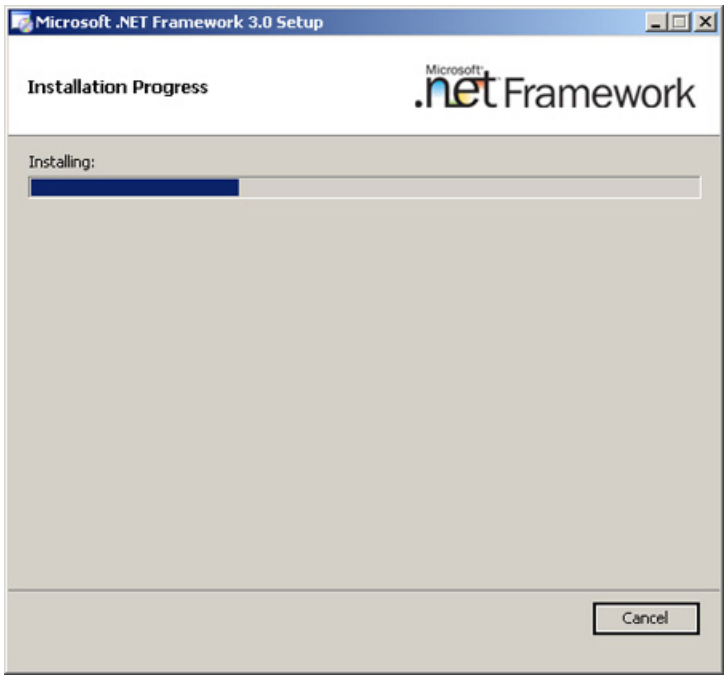
Important
All users of SRX-Pro Ultra Lite and Lite software must be logged in as Administrator into XP Embedded OS before completing this step.

To upgrade .NET framework, do the following:

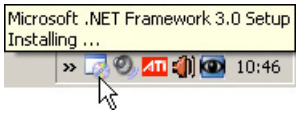
1. Locate and run .NET 3.0 installation file to initiate setup.
2. In the setup wizard window, select **I have read and ACCEPT the terms of the License Agreement** radio button and click **Install**..



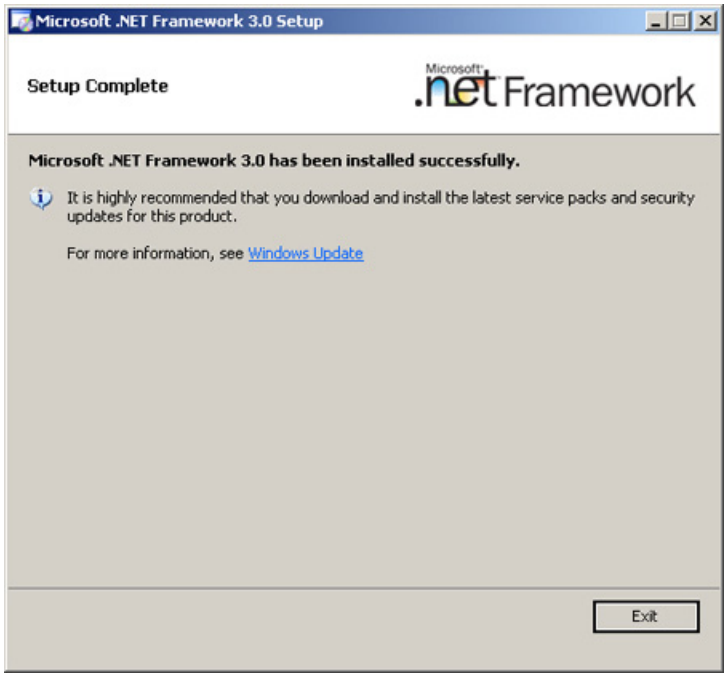
3. Wait while the .NET Framework 3.0 is installing on the DVR.



4. The installation process may take several minutes. The installation window may be minimized, in this case, you will be able to locate the .NET Framework installation icon in the Windows taskbar.



5. Wait for the Setup Complete window to be displayed and click **Exit** to close it.



1.2.2. Installing Microsoft Visual C++ Package

The required Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) **version 8.0.56336** will be installed on all new DVRs during the production stage, however if your DVR has an earlier version of SRX-Pro series software, you must install Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) before upgrading your SRX-Pro Server software to version 1.500 and up.

Important

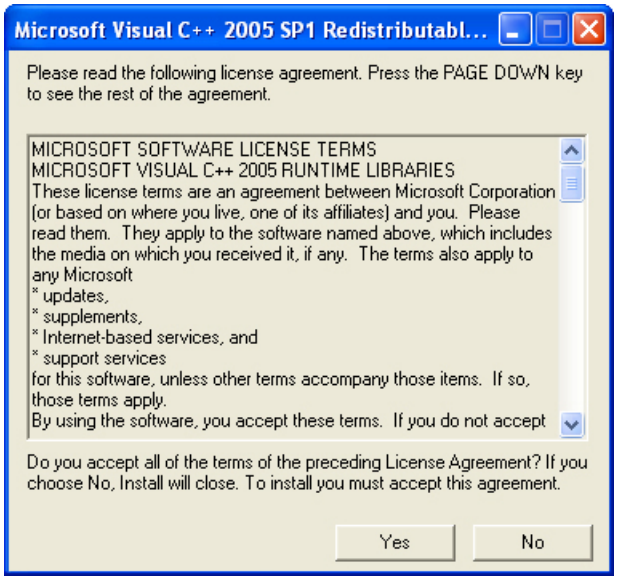
Only one instance of Visial C++ library may be present on the system at one time.

Important

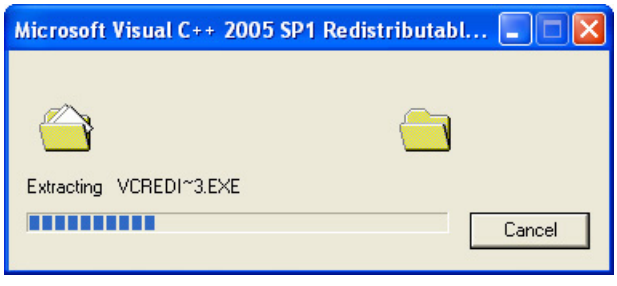
All users of SRX-Pro Ultra Lite and Lite software must be logged in as Administrator into XP Embedded OS before completing this step.

To install Microsoft Visual C++ Package, do the following:

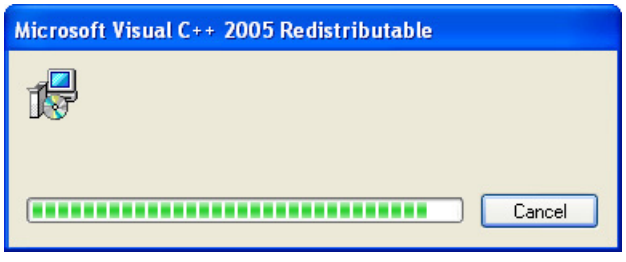
1. Locate the installation *.exe file and double-click it to initiate the installation.



2. Wait while the Microsoft Visual C++ package file contents are extracted.



3. Wait while the Microsoft Visual C++ package installs onto the DVR. Once the installation has completed, the installation window will disappear.



1.2.3. Installing HASP Drivers

This section applies to the customers that have purchased the software separately for an NVR integration and are using their own Server system to install SRX-Pro Server software.

Hardware Against Software Piracy (HASP) key (also referred to as Software Protection Key, or SPK) is a USB device that is sold in conjunction with the SRX-Pro software. HASP key prevents unauthorized usage of unlicensed copies of SRX-Pro software. This means that the number of systems, on which SRX-Pro Server can operate simultaneously will be determined by the number of HASP keys sold with the order.

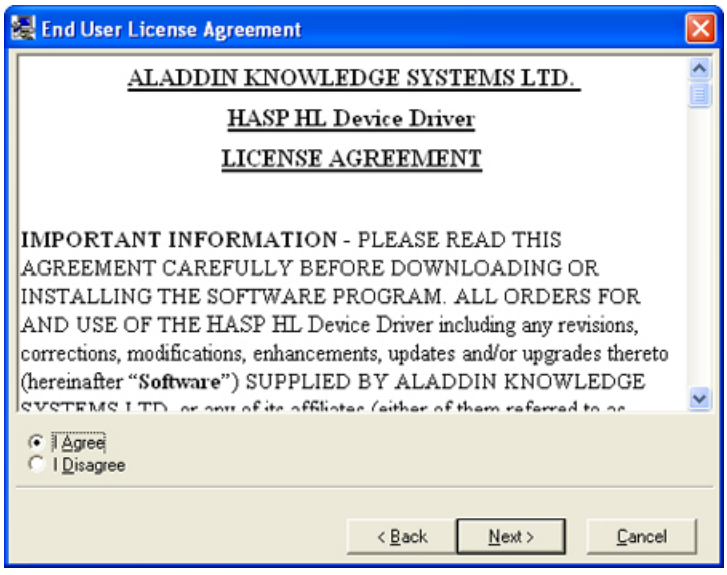
Before installing SRX-Pro software, install the latest HASP drivers **first**, then plug the HASP key into the USB port on the local system. Only then can the SRX-Pro Server software be installed on the client PC.

The HASP drivers can be found on the Software CD that came along with the SRX-Pro purchase. The HASP drivers can also be downloaded from i³ FTP site. For more information, please contact our technical support team at 1-877-877-7241.

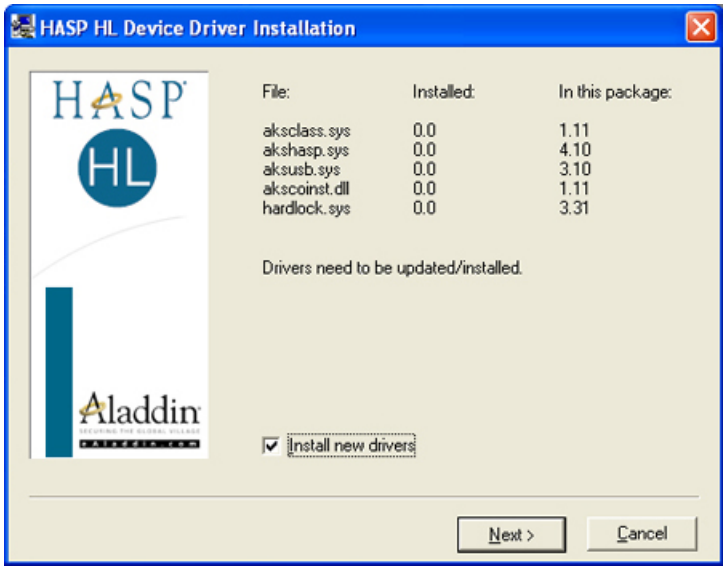
To install HASP drivers from CD, do the following:

1. Insert the installation CD into the CD-ROM and locate the installation file for HASP driver v.5.11: **HASPUserSetup.exe**
2. Double-click the setup file to initiate the installation process
3. Click **Next** in the installation Welcome screen

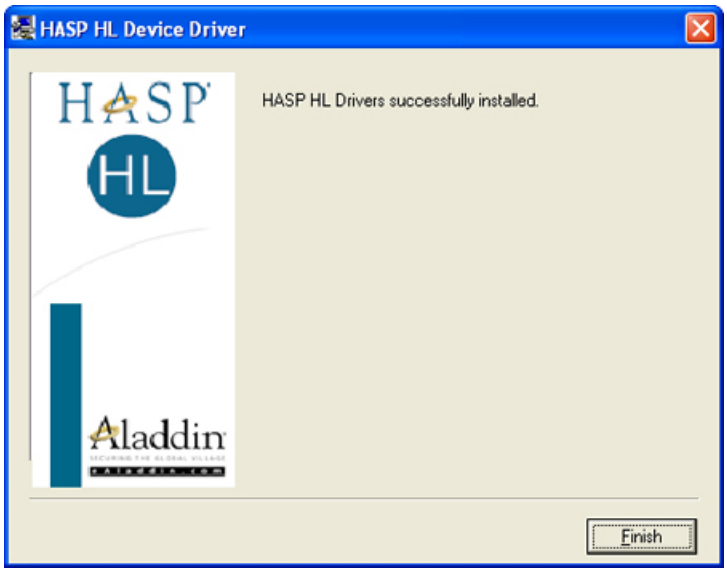
4. In the License Agreement screen, scroll down to the end of the document to familiarize yourself with Aladdin License Agreement. Select **I Agree** radio button and click **Next** to proceed with the driver installation.



5. In the next installation screen, check off **Install new drivers** checkbox and click **Next** to proceed.



6. Wait for the final installation screen and click **Finish**. This completes the driver installation process.

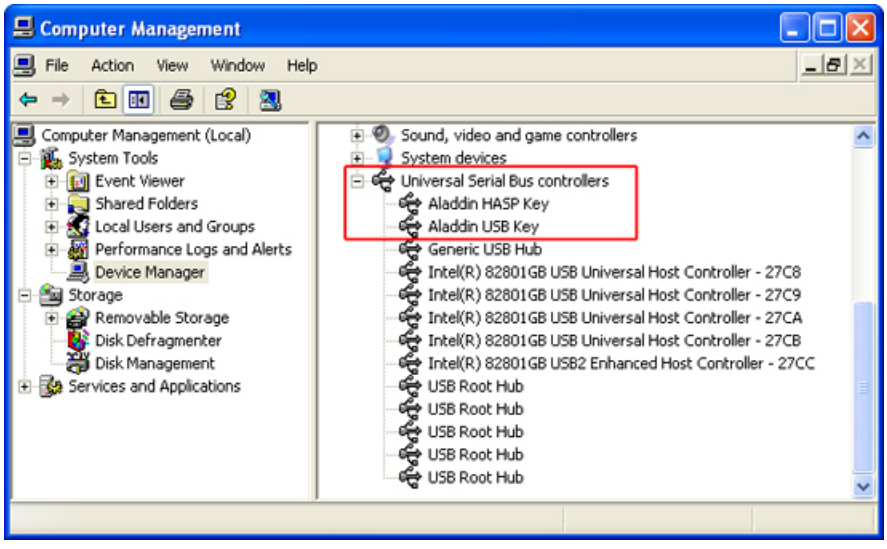


7. Plug the HASP key into the USB port on the local PC. Keep the HASP key plugged in at all times.

Caution

Do not unplug the HASP key while video is being recorded! Keep HASP key plugged in at all times, while the system is recording video. Only remove HASP key to transfer SRX-Pro Server software to a different local PC.

8. To ensure that the driver installation was successful, right-click on My Computer and select **Manage** from the context menu.



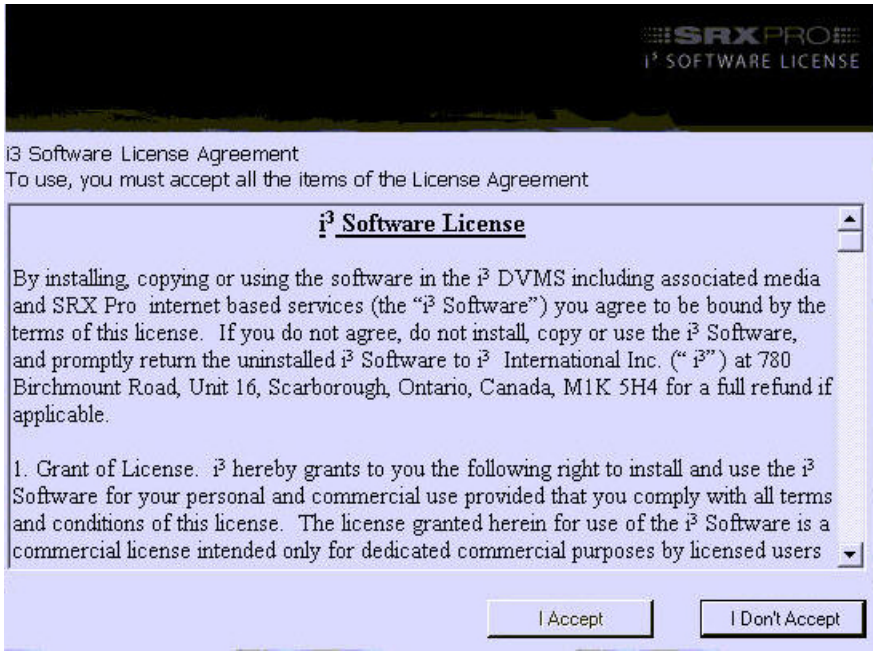
9. In the Computer Management window, go to Device Manager, expand *Universal Serial Bus controllers* list and look for the following entries: **Aladdin HASP Key**, **Aladdin USB Key**. If the entries are present in the list, the drivers were installed correctly. If not, try re-installing the drivers by following steps 1-7. If the HASP key is still not recognized by the system, please contact our technical support team for help at 1-877-877-7241

1.2.4. First-Time SRX-Pro Server Installation

This section applies to the customers that have purchased the software separately for an NVR integration and are using their own Server system to install SRX-Pro Server software.

To install SRX-Pro Server software, do the following:

1. Insert the installation CD into the CD-ROM and locate the SRX-Pro Server installation file: **Setup.exe**
2. Double-click the setup file to initiate the installation process
3. In the installation Welcome screen, click **Next**
4. In the License Agreement screen, scroll down to the end of the document to familiarize yourself with i³ Software License Agreement. Select the **I Accept** button to proceed with the installation.



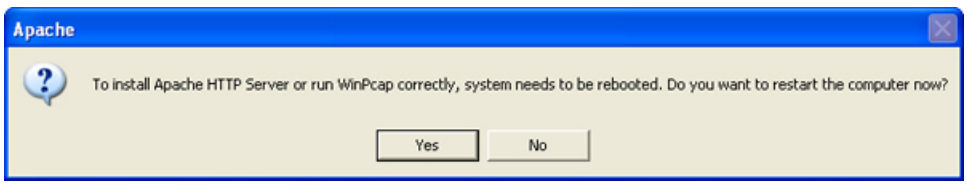
5. In Select Installation Folder screen, select installation drive and folder by clicking **Browse...** or keep the default installation folder.

   Depending on whether local PC has multiple users, select either **Everyone** or **Just me** radio button to determine who will be using SRX-Pro Server software, then click **Next**.

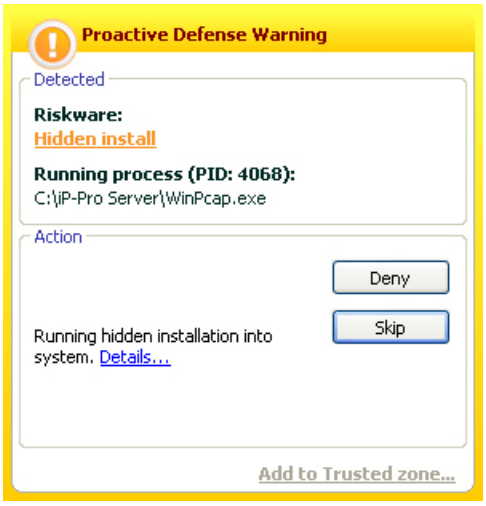
6. In Confirm Installation screen, click **Next** to proceed with the installation
7. Wait while the SRX-Pro Server software is installing onto the local system.

   Important: If WinPcap 4.0.2 software application is not present on the system or an earlier version is installed, WinPcap Installer window will be displayed. Follow the instructions to install the correct WinPcap version on your SRX-Pro system. You must complete WinPcap installation if requested, otherwise SRX-Pro Server will not be installed.

8. Wait for the Installation Complete screen to be displayed and click **Close**.
9. The Apache window will be displayed. Click **Yes** to restart your system immediately. Make sure to save all work in progress before restarting. Refer to First Software Startup section for further instructions.



IMPORTANT: While installing SRX-Pro Server onto a system with previously installed Kaspersky Anti-Virus software, you may experience a Proactive Defense Warning in response to the WinPcap.exe file installation. Please note that WinPcap.exe file is essential to correct functioning of the SRX-Pro Server and must be installed as a part of a complete SRX-Pro software installation. If using Kaspersky, click **Skip** in the Proactive Defense Warning window until it disappears. If using other anti-virus software, please make sure to allow WinPcap.exe installation.



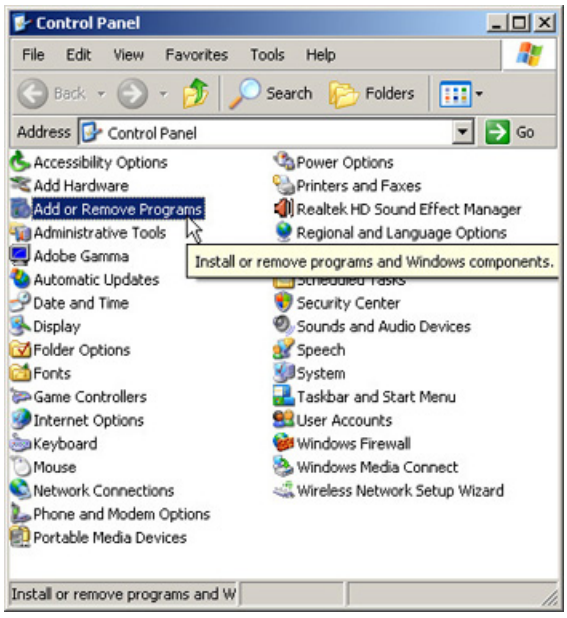
1.2.5. Traditional (Manual) Upgrade

This section applies to the customers that would like to upgrade the earlier version of the SRX-Pro Server software on their VMS.

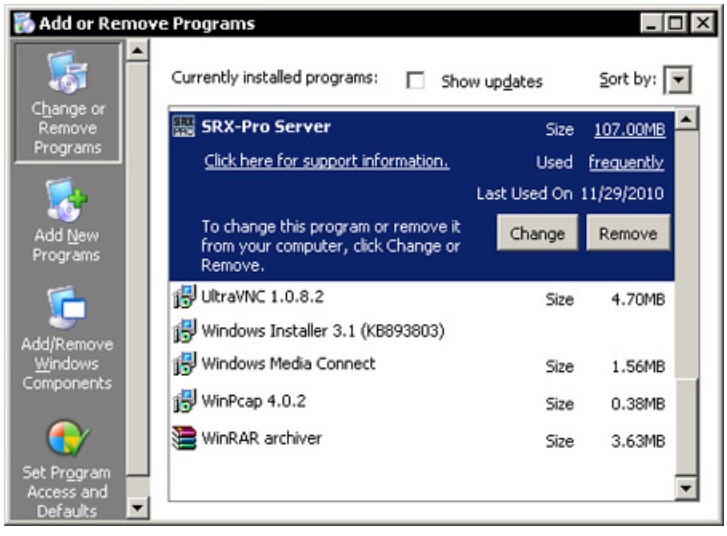
Important
All users of SRX-Pro Ultra Lite and Lite software must be logged in as Administrator into XP Embedded OS before completing this step.

If no Internet connection is available, do the following in order to upgrade the SRX-Pro Server the traditional way:

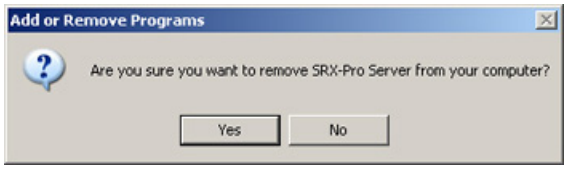
1. Take note of any special settings, channel names, recording schedules, user accounts, etc. If applicable, note the IP address and the site code. Also, find out the current software version by accessing **Help -> About** menu.
2. Make sure the SRX-Pro Server is in Live Mode. If not, click the Live Mode button first. Exit the SRX-Pro Server software by pressing **Ctrl+Alt+Shift+F4**.
3. Click the **Start** button on the Desktop and go to the Control Panel.
4. In the Control Panel window, double-click on **Add or Remove Programs** icon.



5. Select **SRX-Pro Server** in the list of the programs and click **Remove**.

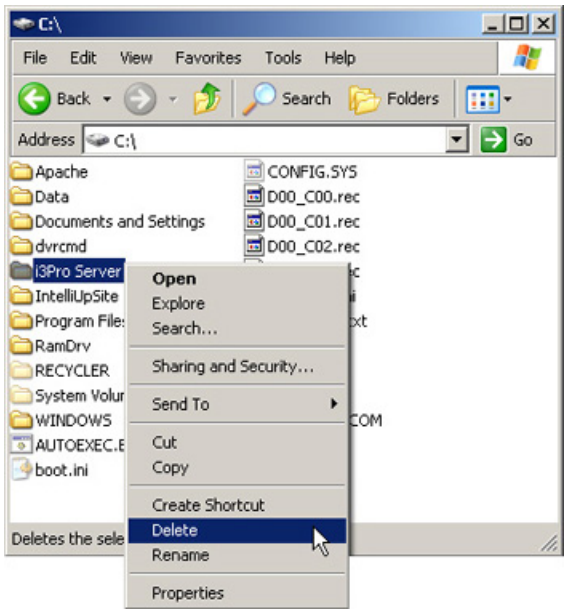


6. Click **Yes** in the confirmation window and wait while the program is being uninstalled from the DVR.



7. Close Add or Remove Programs window. Close the Control Panel window.

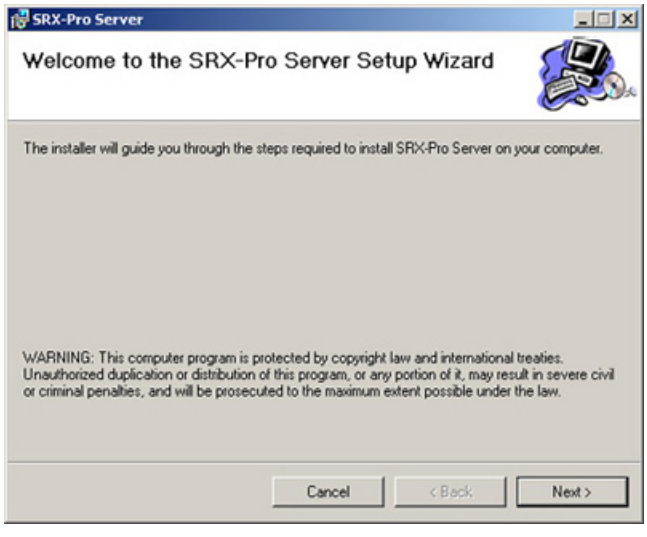
8. Remove **i3Pro Server** folder from the computer (usually drive C:\) by right clicking on the folder and selecting Delete. **DO NOT DELETE THE BACKUP FOLDERS**. (usually drive D:\)



9. Insert the CD with the latest software into the CDROM drive or locate the folder with the new software version if downloaded from our FTP site (http://files.123ip.com).

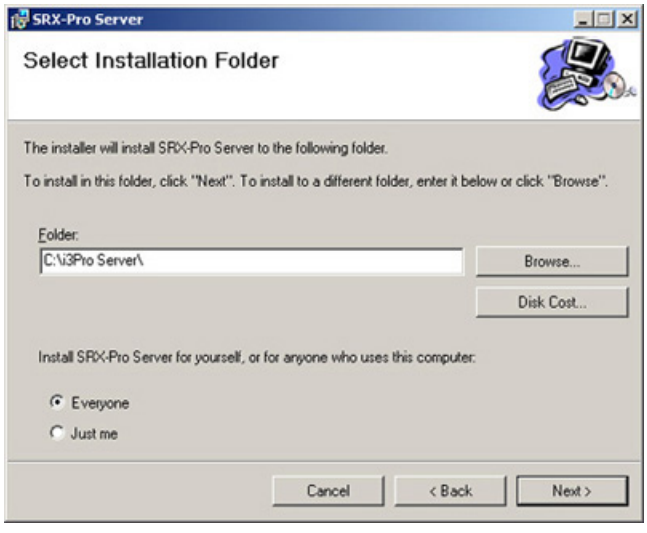
10. Locate the SRX-Pro Server installation file: **Setup.exe** and double-click it to initiate the installation.

11. In the installation Welcome screen, click **Next**

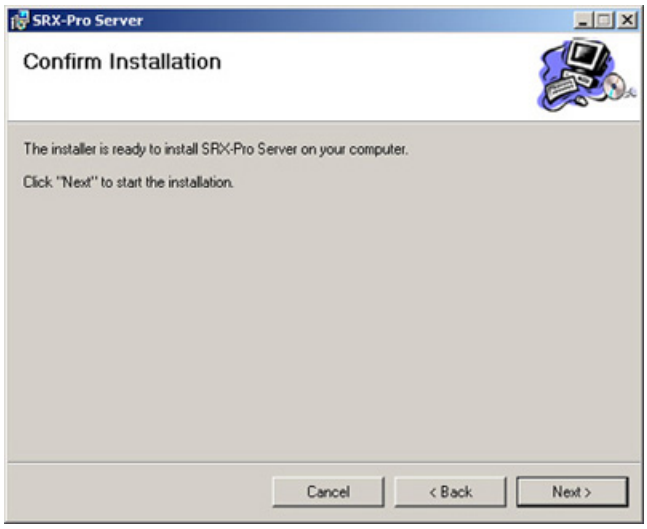


12. In the License Agreement screen, scroll down to the end of the document to familiarize yourself with i³ Software License Agreement. Select **I Agree** radio button and click **Next** to proceed with the installation

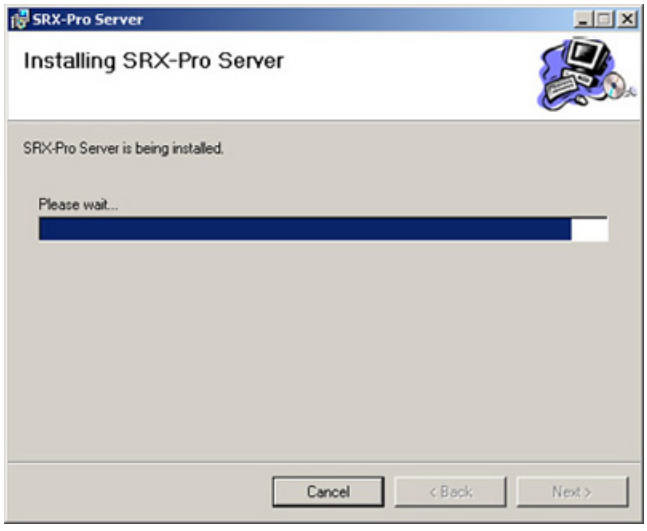
13. In Select Installation Folder screen, select installation drive and folder by clicking **Browse...** or keep the default installation folder (recommended). Select **Everyone** radio button and click **Next**.



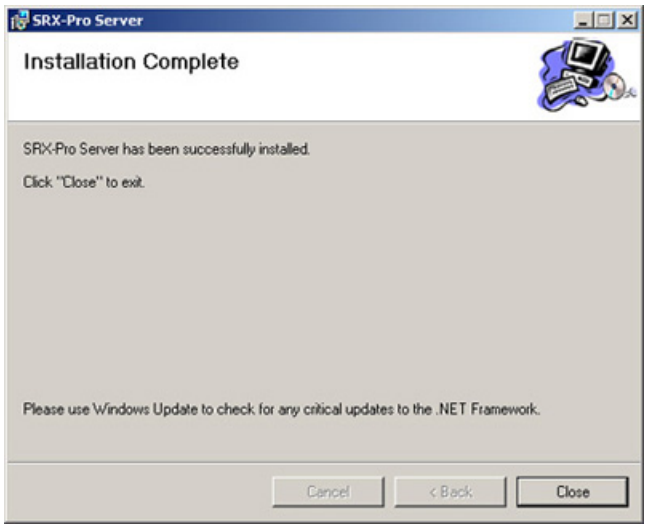
14. In Confirm Installation screen, click **Next** to proceed with the installation.



15. Wait while the SRX-Pro Server software is installing onto the local system.



16. Wait for the Installation Complete screen to be displayed and click **Close**.

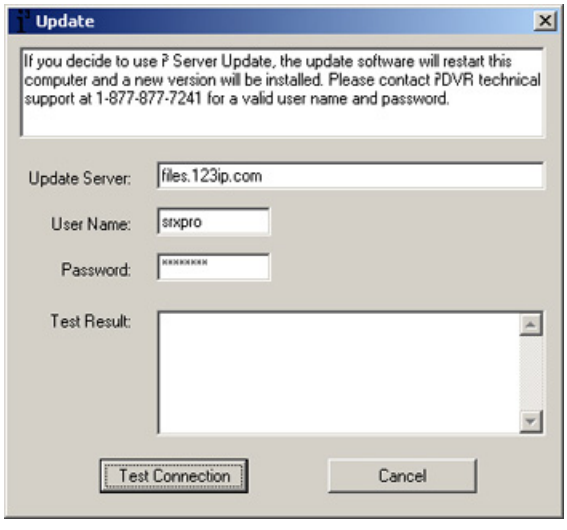


17. Re-configure the system based on the settings noted in Step 1.

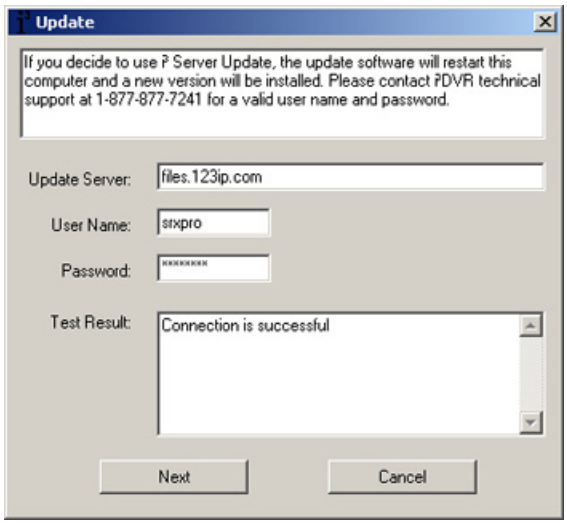
1.2.6. Internet Server Update

If fast internet connection is available, you may update SRX-Pro Server via Internet:

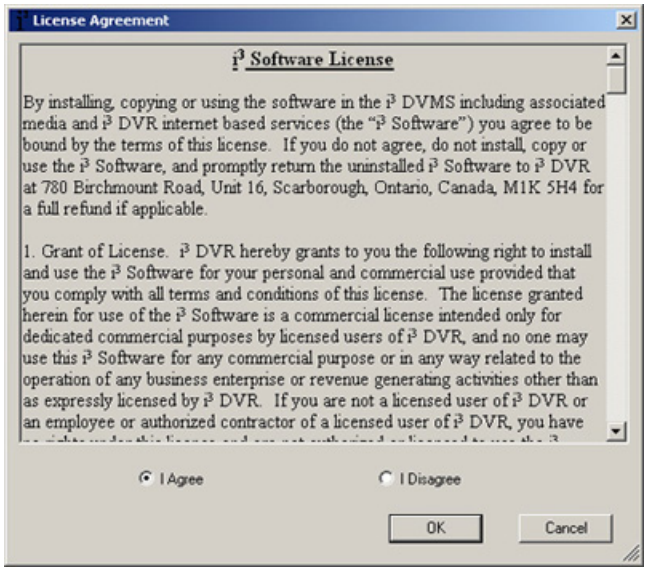
1. SRX-Pro Server must be running and the authorized user must be logged into the system.
2. Go to **Tools** -> **Server Update**. The Update window will be displayed.



3. Contact i³ Technical Support at 1-877-877-7241 for a valid user name and password.
4. Enter provided User Name/Password into the Update window and click **Test Connection**. Wait for the message "Connection is successful" to display in Test Result area and click **Next**.



5. License Agreement window will be displayed. Select **I Agree** radio button to accept i³ Software License Agreement and click **OK**.



6. Wait for the SRX-Pro Server software to update. Depending on the internet connection, this process may take a while. Once the software update has completed, restart your DVR.

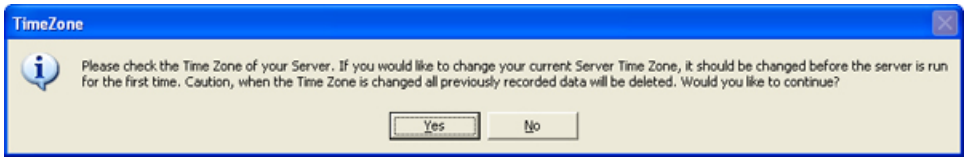
1.2.7. First Software Startup

First software startup will occur immediately after the system restart following the software installation.

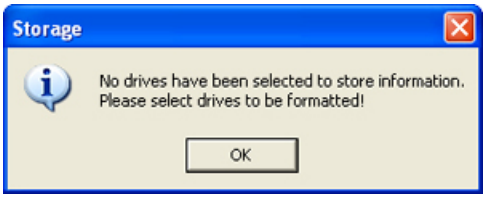
1. After system restart, SRX-Pro software will start loading immediately. The splash screen will be displayed while the SRX-Pro Server is loading.

2. Click **Yes** in the TimeZone window, provided that the time zone is properly configured on your system. Data formatting is strongly recommended after time zone changes.

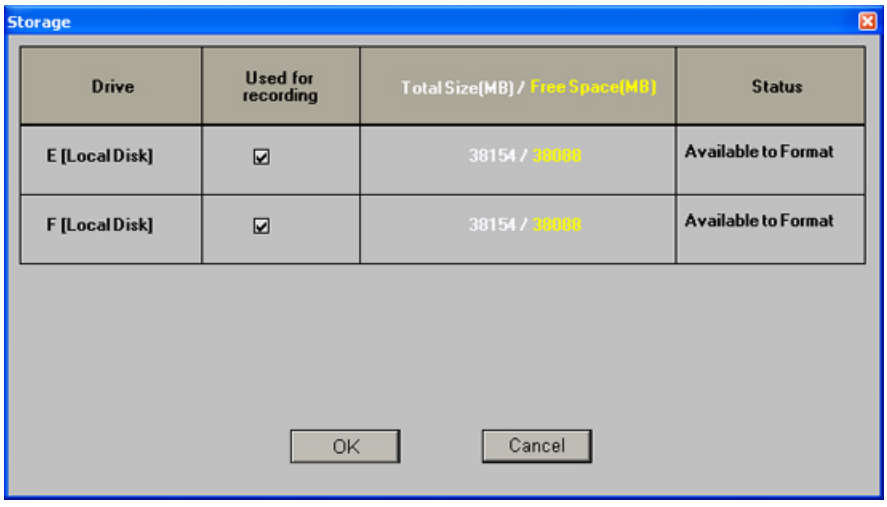
   (Click **No** to close SRX-Pro Server software and access Windows Desktop). See Time Zone Asjustment section for more info.



   a. Click **OK** in the Storage information window.



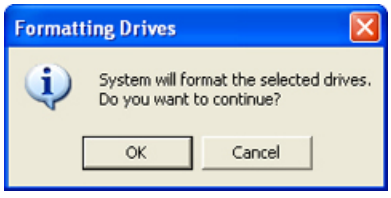
3. The Storage window will be displayed. The Storage window will contain the list of hard drives/partitions available for video recording. Note that C:\ and D:\ are not available for video recording and will not be displayed in the list of available drives. Therefore the system must have at least one additional drive/partition to be allocated for video recording. If no drives are available for video recording, you will be unable to proceed. Install additional drives and restart the software until at least one drive/partition is listed in the Storage window.



4. Check off **Used for recording** check boxes for all drives/partitions that will be used for SRX-Pro video recording and click **OK** to format selected drives/partitions.

5. Click **OK** in Formatting Drives window to proceed.

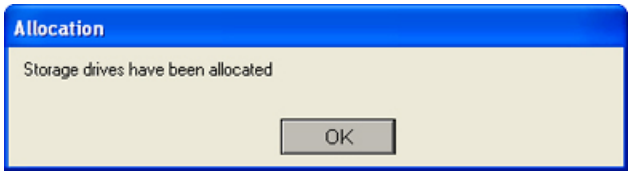
Warning
All information will be erased from selected drives!



6. Click **OK** in Format Option window. Note that the format is pre-set to NTSC.

7. Wait for the following message to be displayed: "Storage drives have been allocated" and click **OK** to finish. SRX-Pro Server software will then load normally. To learn how to allocate additional drives/partitions for video recording, refer to Storage Setup section.

   Refer to Starting SRX-Pro Server section for further instructions on using SRX-Pro Server software.



1.3. Starting SRX-Pro Server

Caution

The SRX-Pro Server can only be started if the screen resolution is 1024x768 pixels and the Color quality is 32bits.

Important

Data integrity is not guaranteed after time zone changes. Malfunction on play-back/backup may occur. Data formatting is strongly recommended after time zone changes.

The SRX-Pro Server is an intelligent and innovative software application that offers the user a variety of controls and settings that make one's experience with i³ effortless and efficient.

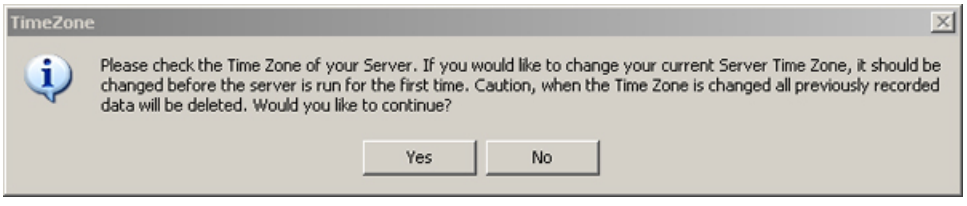
Usually the SRX-Pro Server starts automatically. If it does not, double-click the **SRX-Pro Server** icon on the Desktop.

SRX-Pro Server

1.3.1. Time Zone Adjustment

All VMS units sold by i³ International are pre-set to Eastern Time zone (GMT -5:00). It is, therefore, **imperative** that you configure the time zone setting on the first system startup according to the physical location of the unit. If the VMS is later re-located to a different time zone, this setting must be changed once again. All previously-recorded data should be formatted after each time zone change. Failure to do so may result in system malfunction.

Once the SRX-Pro Server starts for the first time, the following message will be displayed:

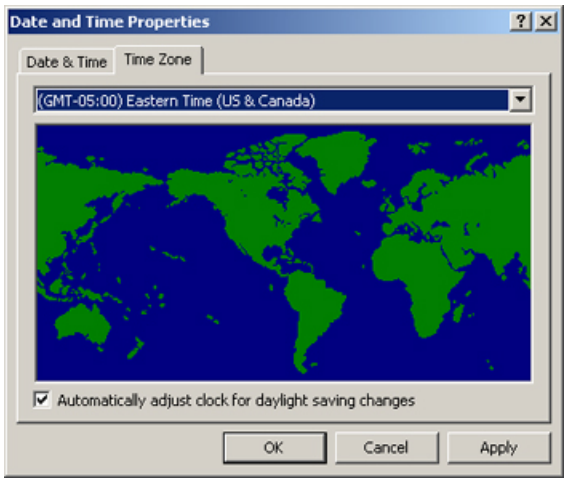


Click **Yes** if the VMS is being installed in the Eastern time zone (GMT -5:00). Click No if the VMS is being installed in a different time zone.

If the VMS is being installed in a different time zone, follow instructions below:

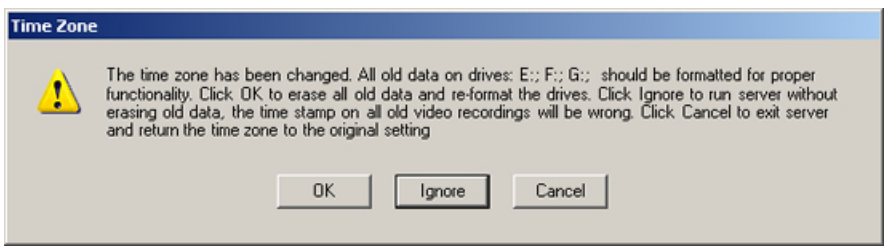
1. On Windows Desktop, go Start -> Control Panel -> Date and Time The Date and Time Properties window will be displayed

2. In the Date and Time Properties window, go to the Time Zone tab, select correct time zone and click OK.



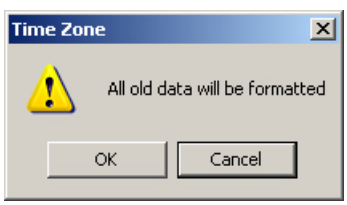
3. Launch SRX-Pro Server software by double-clicking the Server icon on the Desktop.

4. Once the software loads, the following message will be displayed on the screen.

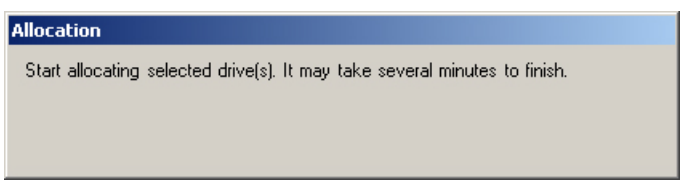


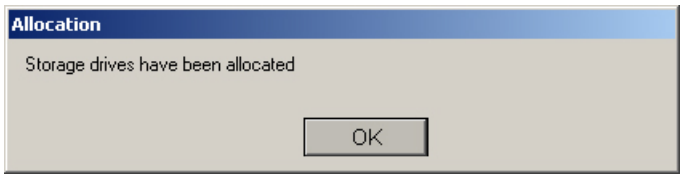
Click **OK** (highly recommended) to format all storage drives and erase video data recorded in a different time zone.

5. Click **OK** in the "All old data will be formatted" warning window, Allocation window will be displayed in the top left corner.



6. Wait until the "Start allocating selected drive(s). It may take several minutes to finish." message changes to "Storage Drives have been allocated". Click OK in the Allocation window to close it.





7. The login window will be displayed on the screen. Follow instructions in First Login section.

1.3.2. First Login

Each VMS comes with two default user accounts: user (for basic system usage) and i3dvr (administrative account). It is recommended to change password for the administrative account or to create other user accounts. Each user account can be configured in such a way that only desired cameras and combination of software features are available to the user.

See User Management section for more information.

If the username and/or password are lost, contact the local dealer for information on how to reset them.

To log into the SRX-Pro Server, do the following:

1. After the SRX-Pro software loads up, the login window is automatically displayed.

2. If logging in for the first time, enter **user** for User Name and **user** for Password.

   Click **Keyboard** to use our Virtual Keyboard if the physical keyboard is not available.

Tip
For administrative account, enter i3dvr for User Name and i3dvr for Password.

3. Click the **OK** or press **Enter** on the keyboard/Virtual Keyboard to complete the login process.

To log out of the SRX-Pro Server, do the following:

1. Click the **Logout** button

2. A **Log Out** window will be displayed. To log out, click **Yes**. Click **No** to remain logged into the Server.

The system may be configured to automatically log out of the SRX-Pro Server after a period of inactivity. The auto logout time is set in the User Management setup tab. See Auto Logout section for more information.

Related Topics: User Management

1.3.3. SRX-Pro Main Screen Features

Main Screen contains the following areas:

1. Menu Bar
2. Live Mode
3. Search Mode
4. Setup Mode
5. Login/Logout
6. Panic
7. PAC
8. Card Access (Portal)
9. 2-Way Audio
10. Screen Divisions (varies based on SRX-Pro software)
11. Full Screen
12. Rotate Channels
13. Current Server mode indicator - *currently in Live Mode*
14. SRX-Pro Control Center (Tree View)
15. Channels/Controls/Sensors Panel - *currently active. Not available in Simple View*
16. Advanced Control Panel - PTZ - *Not available in Simple View*
17. Advanced Data Manager Panel - *Not available in Simple View*
18. Storage
19. Recording Indicator
20. Current User
21. Location - *configured in Server Info*
22. Server ID - *configured in Server Info*
23. Current Date/Time

Login/Logout – in order to access the SRX-Pro Server Setup, search or view the channels or access PACDM™, the user must first log in. To log off, click the **Logout** button.

Search Mode – displays the SRX-Pro Server Search mode, which permits channel search and playback, image editing and printing, file backup by time/date/channel, object search, etc. Search mode is also accessible from the Menu bar. See Menu section for more information.

Setup Mode– displays the SRX-Pro Server Setup menu. Setup mode is also accessible from the Menu bar. See Menu section for more information.

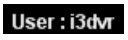
Live Mode – displays the SRX-Pro Server Live mode. This option will either show Real-time or Mux display depending on what option was selected under View - Live Mode menu option. See Menu section for more information

Panic – Panic button acts as an Active Sensor Backup. When **Panic** is clicked or the sensor is activated, the system will backup 5 prior minutes of encrypted video onto a CD-R. The post-activation length of recording is configured by the user in the System Setup menu. See Panic and Sensor Backup section for more information.

PAC – brings up PACDM™ software for generating reports and POS or Card Access transactions searching. This button is only displayed if the PACDM™ software is installed and the appropriate SPK (Software Protection Key) is used.

Card Access – brings up Portal Card Access™ software for generating reports and Card Access log searching. This button is only displayed if the Portal Card Access™ software is installed.

2-way Audio - brings up Server's 2-way audio communication window. At least one SRX-Pro Remote client must be connected to SRX-Pro Server in order to establish a 2-way audio connection. See Two-way Audio section for more information.



Current User - displays the current user logged into the Server.

Recording Indicator - display the status of video recording: recording (blue symbol), not recording (red symbol) or overwriting old data (blue symbol with arrows).

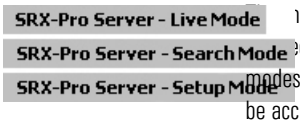
Backup In Progress Indicator - is only displayed when video backup is in progress.

Storage - displays the percentage of hard disk space used for video recording. For example: the diagram shows that 60.55% of the total allocated disk space has been used.

Date and Time – displays the current date and time. This information is acquired from the Windows OS. If date/time is not correct, access the Desktop and double-click the Windows time display in the right-hand corner. Set the appropriate time, click **Apply** and restart the VMS.

Location – displays custom Server Location specified in Server Info setup tab.

Server ID – displays the Server ID specified in Server Info setup tab. This information is required to connect to the Server remotely. It is recommended to use VMS serial number as Server ID.



ıode indicator distinguishes between Server and Remote software applications and ...en "Live", "Search" and "Setup" modes. To switch between the three available modes, click corresponding buttons on the main screen. Search and Setup modes can also be accessed via menu bar. See Menu section for more information.

1.3.4. Screen Divisions

The Screen Division buttons allows the user to customize the appearance of the main screen. When a specific Screen Division is chosen, the corresponding number of channels will be displayed on the Main Screen. This can also be done using the menu options. See Menu section for more information.

Note

The first available channels will be displayed by default. E.g. If the VMS has 12 connected video inputs and the 9-channel screen division is selected, Channels 1-9 will be displayed on the Main Screen in a 9-channel screen division.

Tip

On the Main Screen, in Mux display, the user can drag-and-drop the channels to any screen division position of their choice.

Displays the first 4 available channels in a 4-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the next 4 channels.

Displays the first 6 available channels in a 6-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the next 6 channels.

Displays the first 9 available channels in a 9-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the next 9 channels.

Displays the first 10 available channels in a 10-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the next 10 channels.

Displays the first 13 available channels in a 13-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the next 13 channels.

Displays the first 16 available channels in a 16-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the remaining channels.

Displays the first 25 available channels in a 25-channel Screen division on the Main Display Screen. Use the mouse scroll wheel to display the remaining channels.

Displays the first 36 available channels in a 36-channel Screen division on the Main Display Screen.

Displays the first 64 available channels in a 64-channel Screen division on the Main Display Screen. Not supported by this SRX-Pro Server version.

Full Screen - This button displays the live screen without user interface (no menu bars shown).

Click the screen division button to display the screen division panel.

To exit, press the **Esc** button on the keyboard or select the following icon from the screen division panel:

Rotate Channels - This button continuously rotates channels in the chosen screen division. To stop channel rotation, click the **Rotate** button again to deactivate it.

1.3.5. Menu Bar

The menu bar is one of the new important features that distinguishes the SRX-Pro. The menu bar allows for easier system navigation and for quick access to some software features. Four categories are available in the menu bar: **File**, **View**, **Tools**, and **Help**.

1.3.5.1. File Menu/System Shutdown

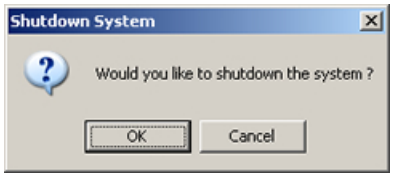
The File menu allows the user to shut down the VMS.

Note
This feature is only enabled when the Server is on Live Mode. This feature is disabled in Search and Setup modes.

To shut the system down, do the following:

1. Select **Shutdown** in the **File** menu
2. Enter the **Password** in the **Confirm Password** window

3. The following message will be displayed. Click **OK** to shutdown the system.



1.3.5.2. View Menu

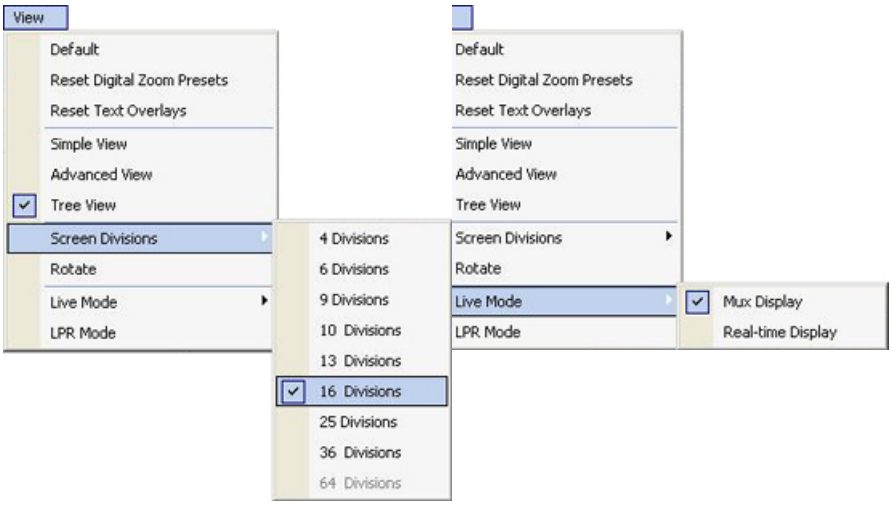
View menu allows switching between four available views: Simple View, Advanced View, Tree View and LPR Mode. The user can also select the Screen Division in the View menu, reset Digital Zoom Presets, Reset Text Overlays, initiate the Rotate feature or configure Spot Out Divisions (AD-3016 card only) or switch between Mux and Real-time display (AD-2016/AD-2816 card only).

Note
The menu appearance will change based on the hardware configuration of your system.

View Menu appearance for AD-2016/AD-2816 capture card with VGA card

View Menu appearance for AD-2016/AD-2816 capture card with VGA card

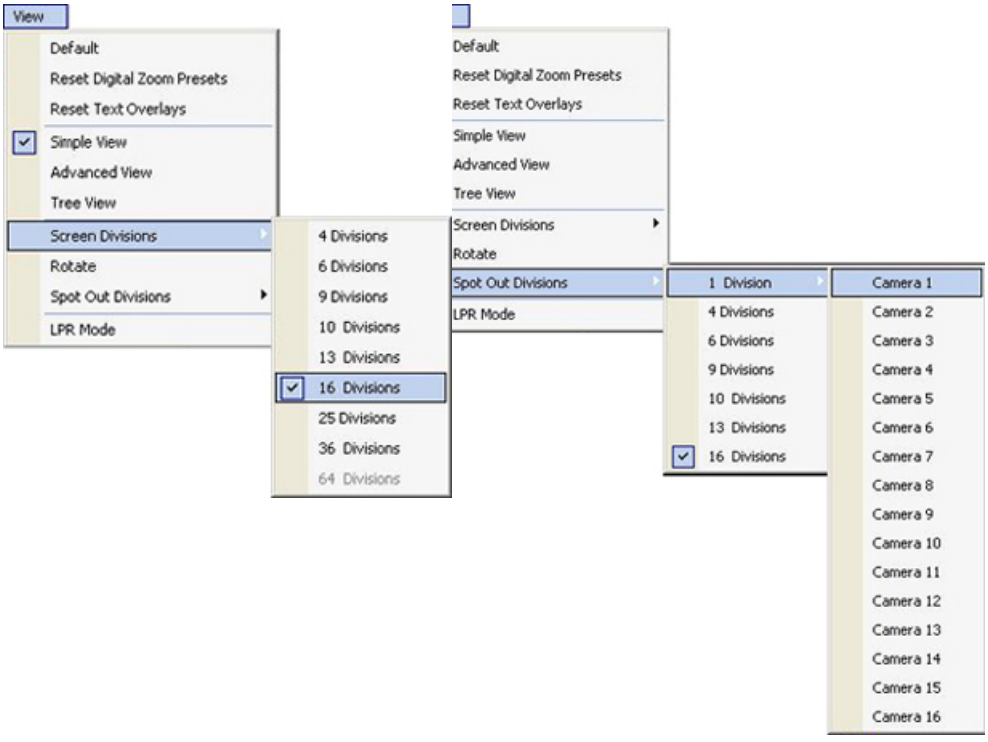
Mux Display and Real-time Display are supported by AD-2016/AD-2816 capture card. User can switch between the two through the View Menu. See Real-time Display vs Mux Display section for more info.



View Menu appearance for AD-3016 capture card with on-board video

View Menu appearance for AD-3016 capture card with on-board video

Spot Out Divisions are supported by AD-3016 capture card and can be configured through View Menu.



Default: This feature is only active in the Live Mode (Mux Display). Select **Default** from the View menu list to return all video channels in their default screen division positions. (i.e. Channel 1 will be displayed in the first screen division, Channel 2 will be displayed in the 2nd screen division, etc.)

Reset Digital Zoom Presets: This feature will reset all video channels to their original 100% display. This is a quick way to reset digital zoom on all channels at once. See Digital Zoom section for more information.

Reset Text Overlays: This feature will reset any custom hide/display settings for the text overlay display for all channels at once. By default, any configured text overlay will be displayed once this option is selected.

Simple View: The simple view hides the SRX-Pro Control Center from the user.

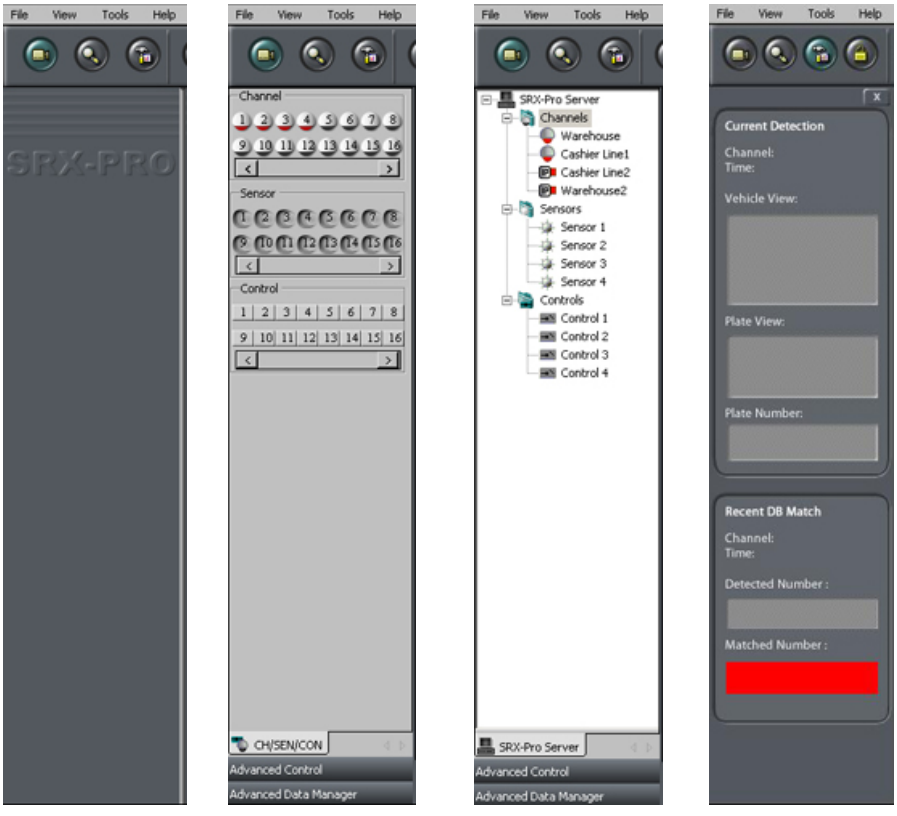
Advanced View: The advanced view shows the Channels/Controls/Sensors, Advanced Control (PTZ) and Advanced Data Manager panels. The channels, controls and sensors are represented by buttons.

Tree View: The tree view shows the Channels/Controls/Sensors, Advanced Control (PTZ) and Advanced Data Manager panels. The channels, controls and sensors are shown as icons in a tree structure. The user may drag-and-drop channels from the tree view in SRX-Pro Control Center to desired screen division position in the Live Mode (Mux Display).

LPR Mode: The LPR view shows the current license plate being detected as well as the most recent database match for the found license plate numbers.

Compare Simple, Advanced and Tree View displays:

Simple View **Advanced View** **Tree View** **LPR Mode**



Screen Divisions: This feature is only available in the Live Mode. Choose the desired screen division from the list. The screen division can also be changed by clicking the corresponding button on the Main Screen. The screen division list will depend on the number of supported channels.

Live Mode: Select between Mux and Real-time displays. This menu is only available for VMS models with a separate video card and AD-2016/AD-2816 capture card.

1. **Mux Display**: displays video on live mode with the frame rate configured in the Recording/Display setup tab. This mode supports drag-and-drop feature, instant search, virtual ruler, text overlay and IP camera features. See Real-time Display vs Mux Display section for more information.

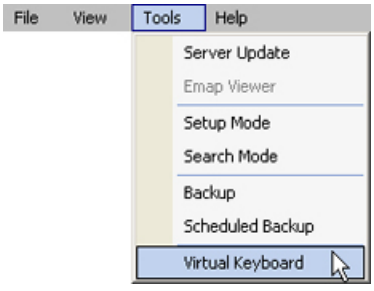
Note

Real-time display is supported only by VMS models with a separate video card and AD-2016/AD-2816 capture card. Not applicable for NVR models.

2. **Real-time Display**: displays video on live mode with the 30 FPS rate regardless of what the user configures in the Recording/Display setup tab. This mode does not support drag-and-drop feature, custom channel arrangement, instant search, virtual ruler, text overlay or IP camera features. This display mode is best suited for surveillance purposes. See Real-time Display vs Mux Display section for more information.

1.3.5.3. Tools Menu

Tools menu allows accessing E-Map viewer window, setup mode, search mode, backup window, scheduled backup window and virtual keyboard.



Server Update: Allows updating to the most recent available SRX-Pro version from i³ FTP server. Please contact i³ Tech Support for valid user name/password for this feature. Once the connection is established with the FTP server, the software is automatically updated. See Internet Upgrade section for more information

E-Map Viewer: This feature is only active in the Live Mode (Mux display) and is only enabled when the E-Map is configured in the Server setup. See E-Map section for more information. Select **E-Map Viewer** option from the list to display the E-Map Viewer window with all configured e-maps.

Setup Mode: Select to access the SRX-Pro setup mode.

Search Mode: Select to access the SRX-Pro search mode.

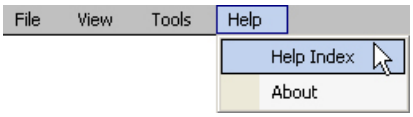
Backup: Select to access the Backup window. See Backup on SRX-Pro section for more information.

Scheduled Backup: Select to access the Scheduled Backup window. See Scheduled Backup section for more information.

Virtual Keyboard: Select to display the virtual keyboard. i³ Virtual Keyboard can be used to enter information. Use the mouse cursor to input the alphanumeric characters.

1.3.5.4. Help Menu

Help menu allows accessing the SRX-Pro user guide, i³ license agreement and SRX-Pro version.



Help Index: Click to display the help menu window.

About: Click to display the i³ license agreement, software version and build date, and software License ID. Scroll down to the bottom of the License Agreement and click **I Accept** to close.

1.3.6. Real-time Display vs Mux Display

SRX-Pro offers two different Live mode displays: Real-time and Mux (Multiplexer) display.

Note

Real-time display is supported only on VMS models with a separate video card and AD-2016/AD-2816 capture card. Note applicable to NVR models.

Real-time display allows viewing analog cameras only. This mode takes raw video directly from the capture card, therefore IP cameras cannot be viewed in Real-time mode. All connected analog video inputs are assigned to the default screen division, the main screen division display cannot be changed in real-time mode. Real-time display does not support text overlay feature or any custom indicators such as PAN/TILT, Intelli-Zone, etc. Additionally, the real-time mode displayed all channels at the 30 frames-per-second rate. Real-time mode is best to be used for monitoring and surveillance. Real-time display mode does not reflect the quality of the video recording. I.e. If the Camera 1 is set to 7 FPS recording rate, it will still be displayed at 30 FPS rate in the Real-time display on Live mode.

Mux (Multiplexer) display allows viewing both analog and IP cameras. Text overlay feature and drag-and-drop features are supported. Each video input can be assigned to one or more channels. Video channels can be organized based on customer preference on the main screen display. Mux mode displays the video recording at the same speed as it is recorded (See Recording/Display section for more information). I.e. If the Camera 1 is set to 7 FPS recording rate, it will be displayed at 7 FPS rate in the Mux display on Live mode.

Compare Real-time display and Mux display of Channels 1-4, where Channels 1 and 2 are analog cameras and Channels 3 and 4 are IP cameras.

Mux display:

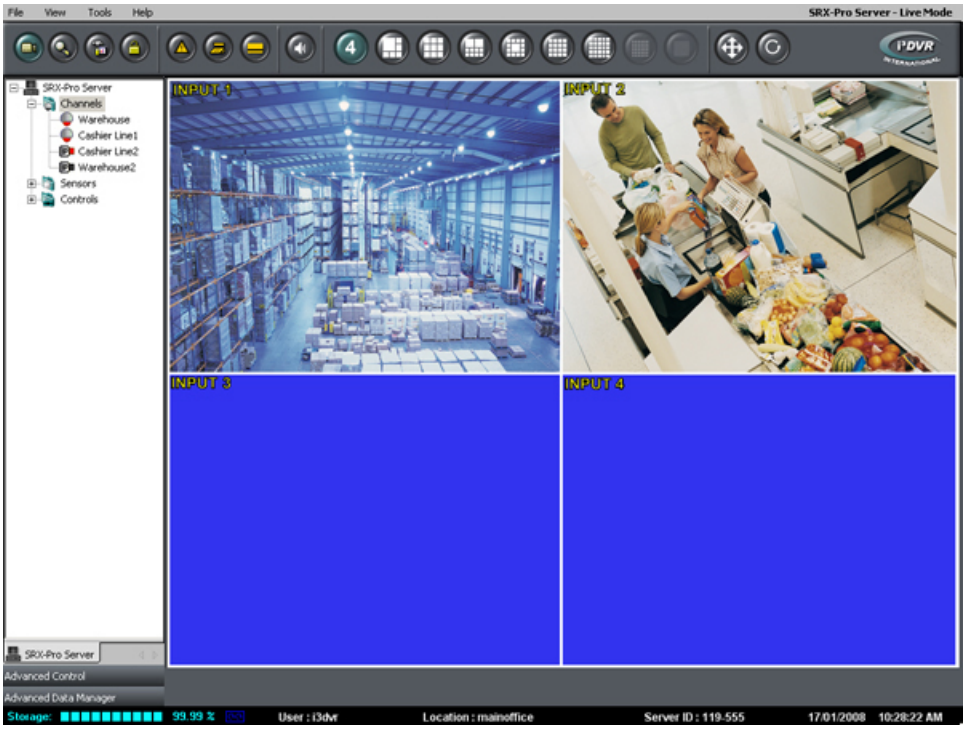
Channels 1-4 are displayed, where Channels 1-2 are analog and Channels 3-4 are IP. Text overlay feature is supported.

Real-time display:

When the same channels are shown in Real-time display, only Channels 1-2 (analog) can be seen on the main screen. No text overlay feature is supported. The channels are marked according to the physical video input number (BNC connector number in the back of the VMS).

Note

Real-time display is supported only on models with a separate video card and AD-2016/AD-2816 capture card. Note applicable to NVR models..



1.3.6.1. Indicators in Mux display

The following custom indicators are available in the Mux display:

- **PTZ Camera Indicator.** PAN/TILT indicator is only shown for the cameras that have been configured as PTZ cameras in Hardware Setup. Note that the PTZ camera will not respond to user command unless it is properly configured.
- **Intelli-Zone Indicator.** Provided the video channel is configured for the Intelli-Zone™ feature, this indicator will be displayed next to the PTZ camera indicator.
- **Recording Schedule Indicator.** This indicator shows what type of recording the channel is configured for in Schedule Setup.
- **Channel #, Name, and IP Address** (for IP cameras only). Channel # will remain the same regardless of the location on the main screen. Channel Name is configured in the Hardware Setup.
- **DZ**. Digital Zoom indicator signifies that the video can be zoomed into digitally. See Digital Zoom section for more information.

The following indicators are available:

C	Continuous Recording
M	Motion Recording
S	Sensor Recording
S/M	Sensor + Motion Recording
C/E	Continuous Recording with Emergency Frame Rate
VL	Video Logix Recording
C Audio	Continuous + Audio Recording. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video.
M Audio	Motion + Audio Recording. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video.
S Audio	Sensor + Audio Recording. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video.

S/M Audio	Sensor/Motion + Audio Recording. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video.
C/E Audio	Continuous + Audio Recording with Emergency Frame Rate. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video. Configure Emergency Frame rate in Recording/Display Setup tab.
VL Audio	VideoLogix + Audio Recording. Activate Audio Input in Hardware Setup for selected channel to record audio stream together with the video.
DZ	Digital Zoom indicator. Digital Zoom preset has been activated on this channel.. Go to View -> Reset Digital Zoom Presets to view

See Emergency Frame Rate Recording section for more information.

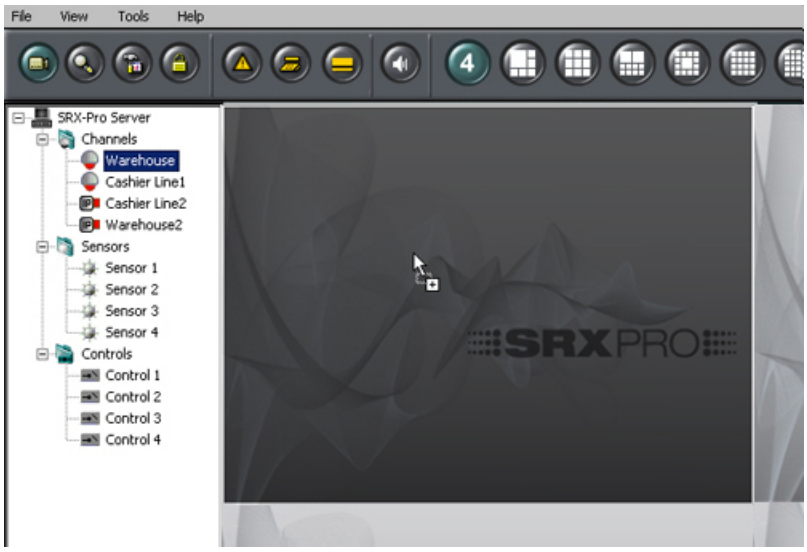
1.3.6.2. Drag-and-Drop feature on Mux display

Mux display allows the user to drag-and-drop the video channels from the Tree View list directly onto the Main Screen division.

In order to drag-and-drop the channel onto the main screen division, do the following:

1. Ensure that the Tree View is selected from the View menu
2. Select desired screen division by clicking on one of the screen division buttons
3. Expand the Channels list in the Tree View and click on the desired channel to select it

4. Hold the left mouse button down and drag the selected channel onto the desired screen division position



5. Release the mouse button. The chosen video channel will be displayed in the selected main screen division position.

In order to move/swap video channel positions on the main screen, do the following:

1. Position the mouse cursor over the desired screen division position and press the left mouse button.

2. Hold the left mouse button and drag the chosen video channel to the new screen division position.

3. Release the mouse button. If the position is empty, the video channel will be moved to the empty position. If the position is taken by another video channel, the channels will be swapped. In the example below, video Channels 1 and 3 have been swapped. Note that the Channel image number remains the same before and after position change.

1.3.7. PTZ mode

1.3.7.1. Overview

SRX-Pro software allows controlling the PTZ cameras remotely. Ensure that the correct PTZ Camera type (model) is selected in Hardware Setup. Depending on the camera type chosen, different features are supported. A RS232 converter must be used for PTZ control.

PTZ cameras can be controlled from:

1. SRX-Pro Server (authorized users only)
2. SRX-Pro Remote (authorized users only)
3. SRX-Pro WebSearch (authorized users only)

In the PTZ window the user can:

1. Change the pan-tilt settings
2. Zoom in and out
3. Focus the image
4. Configure the presets, preset touring and patterns

The PTZ window can be controlled with:

1. The buttons in the PTZ Advanced Control panel

2. The Mouse in-cameo function. To do so, click and hold the left mouse button. The user can then move the cursor in the desired direction and the PTZ camera will follow the mouse cursor.

1.3.7.2. Using the PTZ Mode

In order to use the PTZ mode, make sure the SRX-Pro software is in with Advanced or Tree view mode. See Menu section for more information.

> **Tip**
> The PTZ controls will remain on the screen when a different screen division is selected. PTZ camera does not need to stay in the full-screen mode to be controlled by the user.

To access the PTZ mode, do the following:

1. Locate a PTZ channel on the main SRX-Pro Server window (Live Mode). PAN/TILT text overlay must be displayed in the Main Screen. If no PAN/TILT text displayed, the selected camera is either fixed, or is not properly configured in Hardware Setup. Correct PTZ Camera Type and Cam ID **must** be entered in the Hardware Setup - Channel Settings.

2. Double-click the video image. Selected channel will be displayed in full screen mode.

   Note that if the audio channel is assigned to the selected video channel, the **Volume** control window will also be displayed in the bottom right corner.

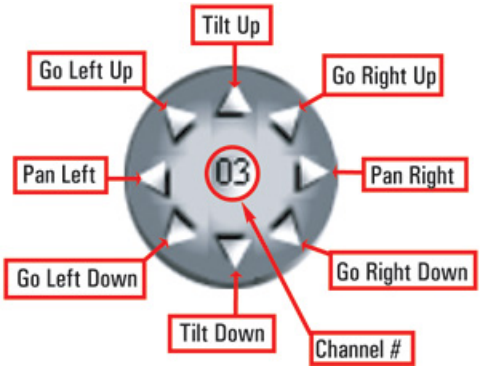
3. The PTZ video channel can now be controlled.

   a. To control the PTZ channel with PTZ control buttons, click the Advanced Control Panel (located in the SRX-Pro Control Center).

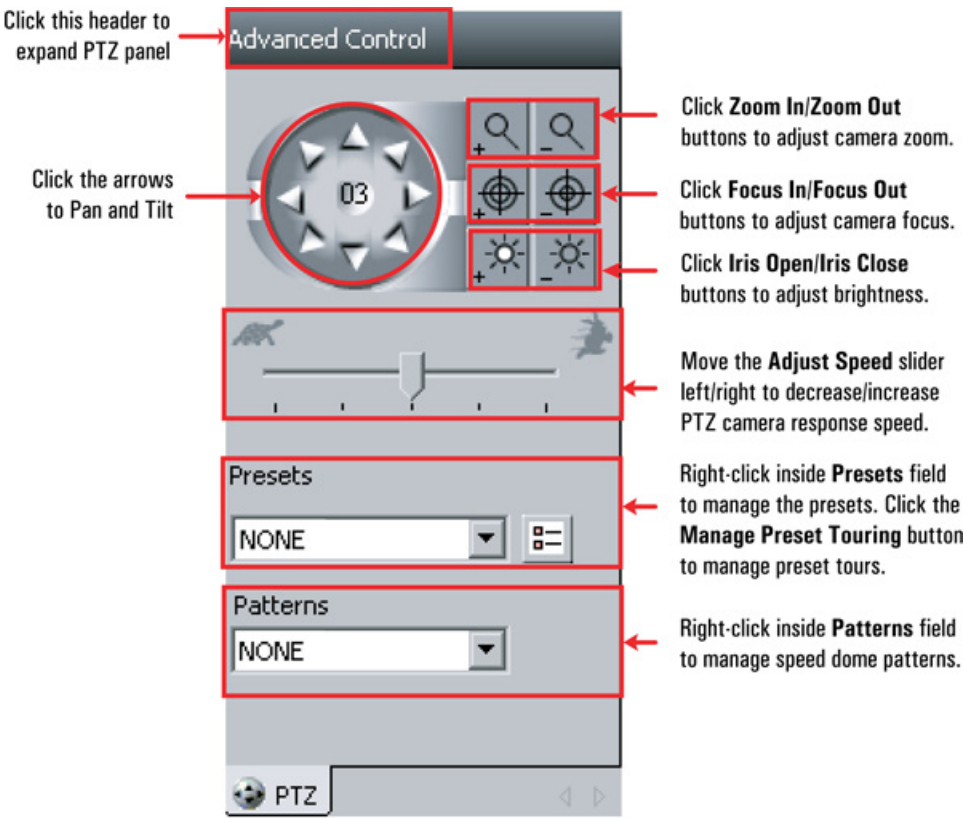
   b. To control the PTZ channel with the in-cameo function, position the mouse cursor within the live view window, left-click and hold down the mouse button. Move the cursor in the desired direction and the PTZ camera follow the cursor direction.

To control the Pan/Tilt position of the camera, follow the diagram below:

PTZ Control Wheel



To control Zoom/Focus/Iris, manage presets/patterns, follow the diagram below:



1.3.7.3. Managing PTZ Presets

Up to 10 different presets can be configured for each PTZ video channel. In order to create a new preset, position the camera in the desired direction and then save the preset.

1.3.7.3.1. Programming Presets

To configure the desired preset, do the following:

1. **Using PTZ Advanced Controls Panel**
    a. Adjust Pan/Tilt position by clicking the arrows on the PTZ Control Wheel.
    b. Adjust camera zoom by clicking **Zoom In**/**Zoom Out** buttons on the panel.
    c. Adjust camera focus by clicking **Focus In**/**Focus Out** buttons on the panel.
    d. Adjust camera brightness by clicking **Iris Close**/**Iris Open** buttons on the panel.
2. **Using in-cameo PTZ function**
    a. Position the mouse cursor within the live view window.
    b. Left-click and hold down the mouse button.
    c. Move the cursor in the desired direction and the PTZ camera follow the cursor direction.
    d. Adjust camera zoom by clicking **Zoom In**/**Zoom Out** buttons on the panel.

e. Adjust camera focus by clicking **Focus In**/**Focus Out** buttons on the panel.

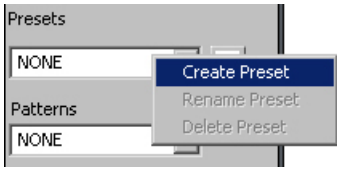
f. Adjust camera brightness by clicking **Iris Close**/**Iris Open** buttons on the panel.

1.3.7.3.2. Saving Presets

> **Tip**
> A default name is used for all new presets. The preset(s) can be optionally renamed by the user.

To save the configured preset, do the following:

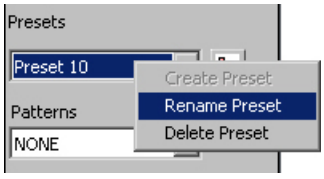
1. In the Advanced Control panel, right-click inside the **Presets** field
2. Select **Create Preset** from the context menu



1.3.7.3.3. Renaming Presets

To rename the configured preset(s), do the following:

1. Select the desired preset in the **Presets** drop-down menu
2. Right-click inside the **Presets** field
3. Select **Rename Preset** from the context menu

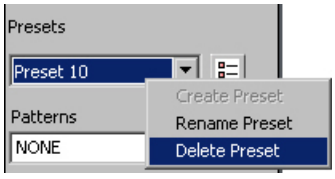


4. Type the custom preset name in the **Presets** field. In the example below, Preset 10 will be renamed.

1.3.7.3.4. Deleting Presets

To delete the configured preset(s), do the following:

1. Select the preset in the **Presets** drop-down menu
2. Right-click inside the **Presets** field
3. Select **Delete** from the context menu. In the example below, Preset 10 will be deleted.

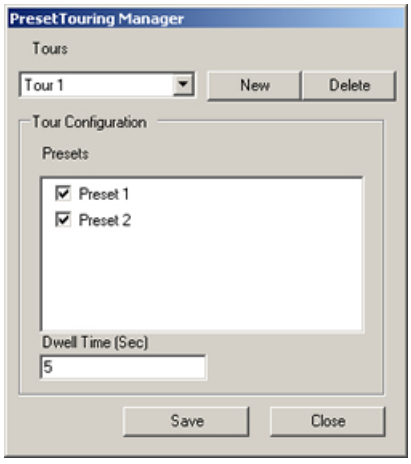


1.3.7.4. Programming Preset Tour(s)

Preset Tour is a sequence of selected presets that is displayed continuously until interrupted by user. The Dwell Time determines the delay time between two consecutive presets.

To create a preset tour, do the following:

1. Program all desired presets in the PTZ mode. (See Managing PTZ Presets for more information)
2. Click the **Preset Touring** button . The Preset Touring Manager window will be displayed



3. Click **New** to create a new tour
4. Select the desired presets in the Tour Configuration area by checking off the corresponding checkboxes
5. Enter the **Dwell Time (Sec)** value to determine the delay time between two consecutive presets. In the example above, the Preset Tour 1 will cause the PTZ camera to switch between Preset 1 and Preset 2 every 5 seconds.
6. Click **Save** to save configured preset tour
7. To create additional Preset Tours, repeat steps **3**-**6**

To stop touring, do the following:

1. Click the **Preset Touring** button . The Preset Touring Manager window will be displayed
2. In the **Tours** drop-down menu select **NONE**.
3. Click **Close**. The touring will stop.

To delete a preset tour, do the following:

1. In the Preset Touring Manager window, select the Tour from the **Tours** drop-down menu.
2. Click **Delete** to delete the unwanted Preset Tour from the list.

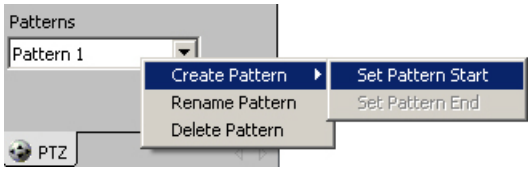
1.3.7.5. Programming Pattern(s)

Pattern is a custom path of the speed dome from start point to end point and back. This is different from the preset touring, where camera switches between the maximum of 10 configured presets. Pattern records every movement of the speed dome, therefore, the user must be precise, when creating a new pattern to avoid unwanted speed dome movements.

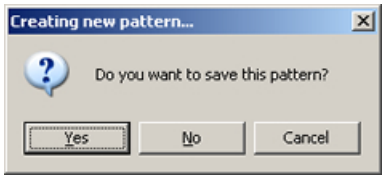
Tip
A default name is used for all new patterns. The pattern(s) can be optionally renamed by the user.

To create speed dome pattern, do the following:

1. Enter PTZ mode by double-clicking the PTZ channel on the main screen
2. Make sure that the software is in either Advanced or Tree view. To check, click **View** menu
3. Click the **Advanced Control** panel in the SRX-Pro Control Center Right to expand it
4. Configure the pattern start point same as preset via PTZ Advanced Control panel and/or in-cameo mouse function. (See Programming Presets for more information)
5. Right-click inside the **Patterns** field
6. Select **Create Pattern -> Set Pattern Start** from the context menu. The pattern start point has been saved.



7. Create a custom speed dome path that covers all desired locations. Remember that Pattern function is recording every move from the time **Set Pattern Start** has been clicked.
8. When finished, right-click inside the **Patterns** field
9. Select **Create Pattern -> Set Pattern End** to complete the Pattern recording. The following message will be displayed:



10. To save created pattern, click **Yes**. By default, the new pattern will be immediately activated. To stop the pattern, click on **Patterns** drop-down menu and select **NONE**.

To rename created pattern, do the following:

1. Select the desired pattern in the **Patterns** drop-down menu
2. Right-click inside the **Patterns** field
3. Select **Rename Pattern** from the context menu
4. Type the custom preset name in the **Patterns** field

To delete created pattern, do the following:

1. Select the pattern in the **Patterns** drop-down menu
2. Right-click inside the **Patterns** field
3. Select **Delete Pattern** from the context menu

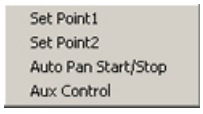
1.3.7.6. AUX Control Mode

SRX-Pro supports AUX (Auxiliary) mode for the following i³ PTZ cameras: **i3DVR SD**, **i3DVR Z1200**, and **i3DVR Z2200**. This function allows changing certain supported camera settings remotely through the software, as opposed to adjusting settings manually on the mounted camera.

To access the AUX Control mode, do the following:

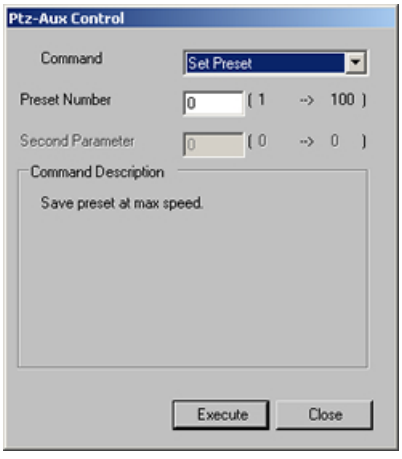
1. Locate the channel number in the middle of the PTZ Control Wheel
2. Right-click the channel number. The context menu will be displayed.

   The following context menu will be displayed for **i3DVR SD** PTZ camera:



   The following context menu will be displayed for **i3DVR Z1200** and **i3DVR Z2200** PTZ cameras:

3. Select **Aux Control** from the context menu. **Ptz-Aux Control** window will be displayed.



The **Ptz-Aux Control** window displays the list of available auxiliary commands along with the command description. Choose the desired command in the **Command** drop-down menu and click **Execute** to apply.

The following auxiliary commands are available for the **i3DVR Z1200** and **i3DVR Z2200** cameras:

1. Brightness
2. Change ID

Note
The context menu will vary based on the PTZ model.

3. Color Mode
4. F-OSD
5. Load Preset
6. Mirror
7. Reset
8. Set Power
9. Set Preset
10. Sharpness
11. Zoom

The following auxiliary commands are available for the **i3DVR SD** camera:

1. AWB Mode
2. B Gain
3. IR Filter Off
4. IR Filter On
5. Load Preset
6. Red Gain
7. Reset Default
8. Set Digital Zoom
9. Set Preset
10. Shutter Priority

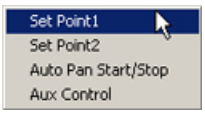
1.3.7.6.1. Auto Pan for i3DVR Speed Dome

i3DVR Speed Dome cameras support Auto Pan feature, which can be configured directly through SRX-Pro Server/Remote application. Auto-Pan is a smooth movement of the PTZ speed dome from start point to end point and back until interrupted by user.

This is different from Pattern since the Auto Pan feature does not record the custom speed dome path, instead it pans in a straight line between configured start and end points.

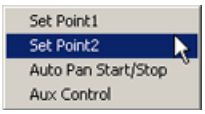
To configure Auto Pan for i3DVR SD, do the following:

1. Display the i3DVR SD channel in the full screen mode in the Live Mode
2. Configure the start point for the Auto Pan same as preset via PTZ Advanced Control panel and/or in-cameo mouse function. (See Programming Presets for more information)
3. Right-click the channel number on the PTZ Control Wheel in the Advanced Control Panel and select **Set Point1** in the context menu



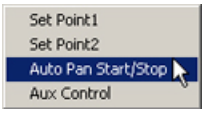
4. Repeat step 2 to configure the Auto Pan end point

5. Right-click the channel number on the PTZ Control Wheel in the Advanced Control Panel and select **Set Point2** in the context menu



6. Right-click the channel number on the PTZ Control Wheel again to access the context menu

7. Select **Auto Pan Start/Stop** to start auto panning. The i3DVR Speed Dome will now continuously mode between configured Point1 and Point2.



8. To interrupt Auto Panning, repeat steps **7-8**

Related Topics: Hardware Setup-Channel Settings | Intelli-Zone™

1.3.8. Two-way Audio

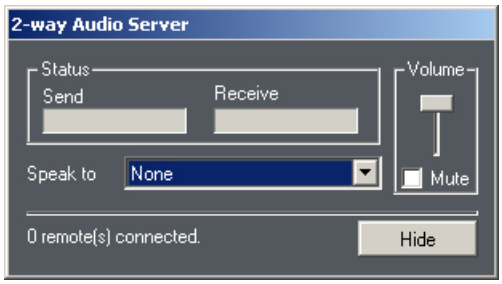
Two-way audio feature allows SRX-Pro Server to communicate with SRX-Pro Remote via voice connection. Speakers/headphones and microphone are needed on both sides to establish a voice connection. Two-way audio connection is always initiated by SRX-Pro Server, however SRX-Pro Remote must be connected to the Server at the time of the two-way connection initiation.

Two-way audio feature utilizes on-board audio input both on Server and Remote side. It is the user's responsibility to ensure that the microphone is properly plugged into the Mic port and that the speakers/headphones are plugged into the Line Out port on the motherboard.

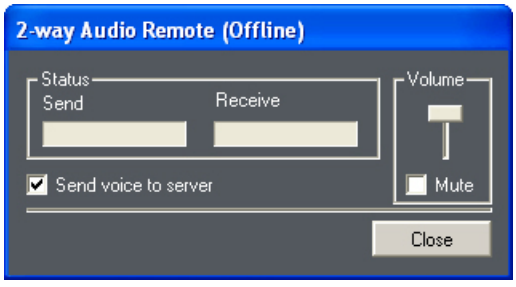
Two-way audio communication is not automatically recorded on either side, however, on SRX-Pro Server side, the on-board audio may be shared between 2-way audio feature and audio recording. To record the Server side of the voice communication, associate the on-board audio with one or more video channels in the Hardware Setup tab.

To establish a two-way audio connection between SRX-Pro Server and Remote, do the following:

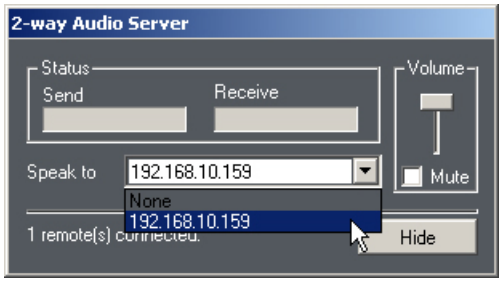
1. On the SRX-Pro Server, click on the **2-way Audio** button on the Main Screen to display the 2-way Audio Server window. At least one remote client (SRX-Pro Remote) must be connected to the SRX-Pro Server to establish 2-way audio connection.



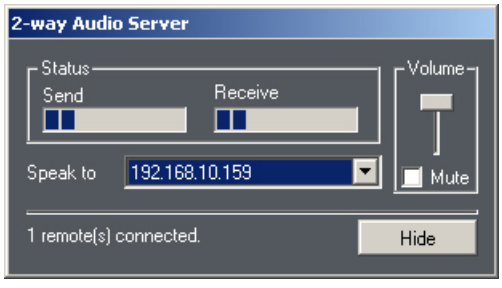
2. On the SRX-Pro Remote, connect to the remote SRX-Pro Server and click on the **2-way Audio** button on the Main Screen to display the 2-way Audio Remote (Offline) window. Make sure the **Send voice to server** checkbox is checked off.



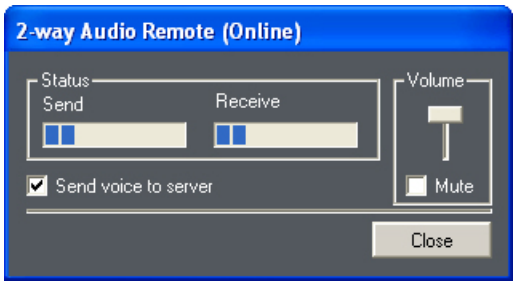
3. On the SRX-Pro Server, select the connected SRX-Pro Remote IP address in the **Speak to** drop-down menu.



4. On the SRX-Pro Server, speak into the microphone. The sound will be coming out of the speakers/headphones on SRX-Pro Remote side.



5. On the SRX-Pro Remote, 2-way Audio Remote (Offline) window will become 2-way Audio Remote (Online). Speak into the microphone.



Note

Both SRX-Pro Server and SRX-Pro Remote may mute audio during the 2-way audio connection.

6. To interrupt the 2-way audio connection on SRX-Pro Server side, select None in the **Speak to** drop-down menu.
7. To interrupt the 2-way audio connection on SRX-Pro Remote side, click **Close** in the 2-way Audio Remote (Online) window or disconnect from remote SRX-Pro Server.

   To temporarily mute the microphone on SRX-Pro Remote side, while still receiving audio communication from SRX-Pro Server side, uncheck **Send voice to server** checkbox.

1.4. Configuring SRX-Pro Server

SRX-Pro Server Setup. Save and Help buttons. Virtual Keyboard.

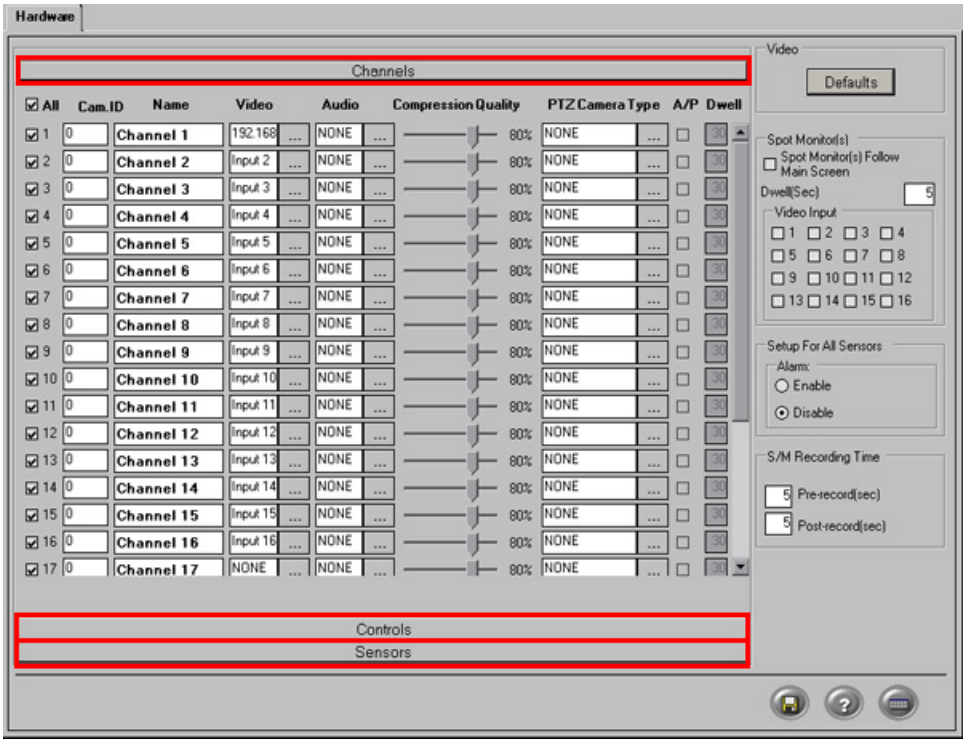
Every SRX-Pro Setup tab has **Save**, **Help** and **Virtual Keyboard** buttons:

Click the **Save** button before closing the Setup window or accessing a different Setup tab in order to save any changes made. Unless the **Save** button is clicked, all changes will be discarded once Setup Mode is closed. It is enough to click the **Save** button once in any setup tab in order to save ALL changes made in all setup tabs.

Click the **Help** button to read the Help Manual.

Click the **Virtual Keyboard** button for user input. The On-Screen Keyboard window will be displayed. Use the mouse cursor to enter desired alphanumeric characters.

1.4.1. Hardware Setup - Channel Settings



1.4.1.1. Overview

Tip
Hardware Setup tab can be hidden from select users in User Management setup tab.

Tip
Only one video source can be assigned to each channel. Each video source can be assigned to multiple channels (duplicated).

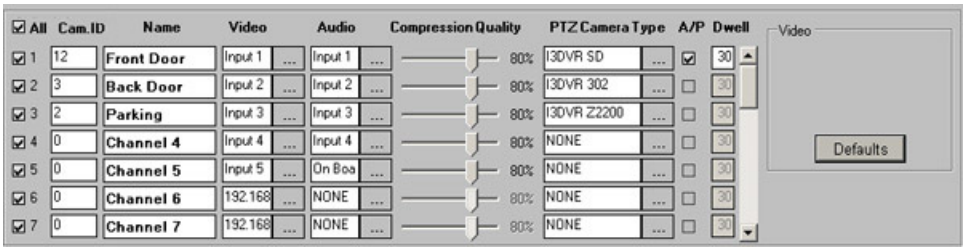
Channel Settings allows:

1. Assigning a name to each selected channel
2. Associating selected channels with a video source (analog or IP camera)
3. Associating selected channels with an audio source (if supported)
4. Modifying the video recording compression quality
5. Choosing the PTZ camera type
6. Activating the Auto Pan feature for selected PTZ channels
7. Configuring the Dwell time for a PTZ Auto Pan feature for selected channels

1.4.1.2. Creating/Modifying Channel Settings

To access Channel settings, click the "Channels" buttons to expand Channels menu.

Channel Settings



To setup all connected video sources, do the following:

1. Check the **All** checkbox to enable all channels OR enable desired channels by checking individual channel checkboxes.
2. In the *Video* field, click the **Browse** button ... to display all available video sources connected to the VMS (analog/IP cameras). The input number corresponds the number of physical BNC connector in the back of the VMS. IP camera inputs are distinguished by IP address. (See IP Camera setup section on instructions on adding IP cameras to the Video Source list). Select desired video input to display on the corresponding video channel.

Note
The number of supported IP channels is SPK-dependent.

3. In the *Audio* field, click the **Browse** button ... to display all available audio inputs. If audio card is not installed on the VMS, on-board audio can be used. Select desired audio input to be used with the corresponding video channel. See Audio Recording in Search Mode section for information on playing back the audio recording.

Note
The number of supported audio channels is SPK-dependent.

4. Assign a descriptive **Name** to each channel. For example, the channel could be named based on the video source location (e.g. Front Door).
5. Adjust video **Compression Quality**. The lower the number, the higher the compression (20% - best compression, 100% - best quality).
6. Choose the correct PTZ Camera Type for all connected PTZ video sources. Click the **Browse** button ... to see the list of supported protocols. If the wrong protocol is selected, the camera may not respond to user commands.

The following PTZ camera protocols are supported: **BOSCH, Checkpoint, ELMO: PTC Series, ELMO: Speed Dome, I3DVR 302, I3DVR SD, I3DVR Z1200, I3DVR Z2200, Panasonic CS854, PELCO-D Mini, PELCO-D SpecII, PELCO-D SpecIII, PELCO-P SD**.

7. Enter **Cam. ID** number for each channel that has been assigned a PT/Z camera video source. Cam. IDs help to distinguish between the different PT/Z cameras connected to the same parallel connection. Most Speed Domes have their Cam. ID assigned by dip-switches in the back of the camera; Camera ID for zoom cameras is normally assigned through camera menu. Cam. ID must match that of the assigned Video Source. If the Cam ID. has been entered incorrectly, the PT/Z camera will not respond to user commands.

   The PTZ cameras are controlled based on the entered Cam ID. For example, if the Cam ID. for Input 1 is assigned to Input 2 in the Hardware Setup, Input 1 will be controlled when the user attempts to control Input 2 from PTZ Advanced Control Panel.

Tip
Fixed cameras do not have a Cam. ID.

Tip
The BNC connector number does not have to match the Cam. ID number.

8. Check the **A/P (Auto-Pan)** checkbox for the installed Speed Domes. This feature allows the speed dome to return to the programmed auto pan after the PTZ settings have been adjusted remotely.

9. Assign **Dwell** time for the A/P setting. This is the time that will pass before the Auto-Pan (A/P) feature will be activated. In the above example, Channel 1 will return to the original pan after 30 seconds.

10. Click **Defaults** to assign default video source to each channel. By default, video sources (cameras) 1-16 will be assigned to channels 1-16 in a sequence. All configured IP cameras (if any) will be assigned to the channels 17-32. If no IP cameras have been configured, channels 17-32 will be assigned no video source.

11. Click the **Save** button to save the configured settings

Related Topics: PTZ mode | Hardware Setup-Sensor Settings | Spot Monitor | Motion Setup | Schedule Setup | Video Setup | User Management Setup

1.4.2. Hardware Setup - Control Settings

1.4.2.1. Overview

Important
Only Administrator User, i3dvr, has permission to configure this setup.

Tip
Hardware Setup tab can be hidden from select users in User Management setup tab.

Important
The following I/O device combinations are supported: ADIO-1616, USBIO, USBIO + one or more UIO8, one or more UIO8

To access Contol settings, click the "Controls" buttons to expand Controls menu. SRX-Pro Server v.2.3 and higher support multiple I/O devices, e.g. USBIO and UIO8 input/output devices can be supported on the same unit bringing the total number of controls and sensors to 10 respectively. Inputs/outputs from each I/O device will be grouped together with their respective device in the Hardware Setup tab. Click on the plus sign "+" next to the I/O device name in Controls and Sensors sections of Hardware Setup tab to see all inputs/outputs supported by the device. In the example below, ADIO-1616 supports 16 control outputs.

Control Settings are applicable only if controls are available and are being used.

Active Time

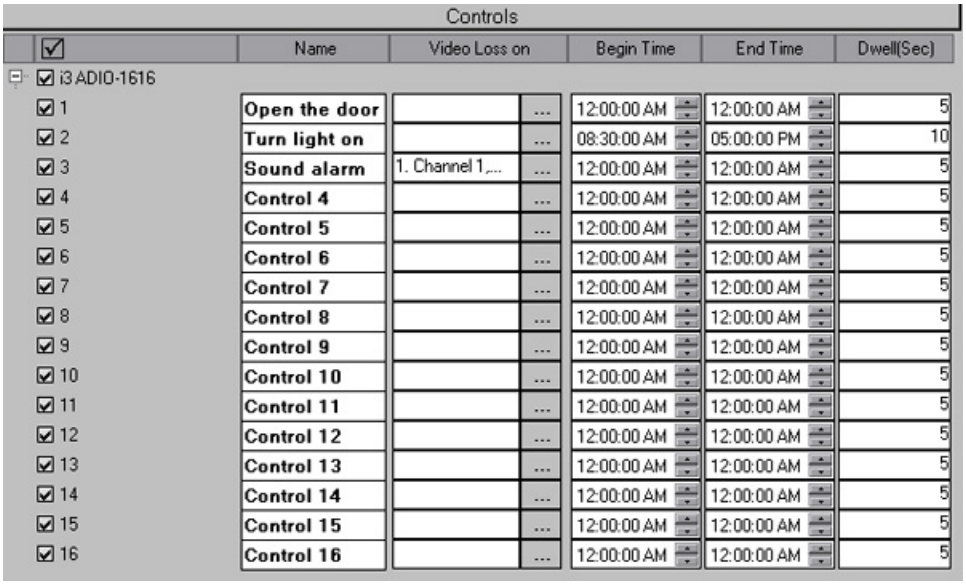
Active Time refers to the designated time when the control is active (is on). The default setting is **0:00:00-0:00:00**, which means the control is always off. The control will be continuously on, if the Active Time is set to **0:00:00 - 24:00:00**. During the Active Time, the control cannot be turned off from the main screen. Outside of the Active Time, the control can be activated by sensor, or manually from the main screen (Advanced/Tree View only).

Dwell(Sec)

Dwell(Sec) is the time the control will stay turned on after being triggered by sensor. This does not apply when the control is turned on manually from the main screen. In other words, if the control is turned on manually from the main screen,

it will stay on until manually disabled by the user. Working Sec also does not apply during the Active Time, when the Control is continuously on.

1.4.2.2. Creating/Modifying Control Settings



To configure available controls, do the following:

1. Check the **All** checkbox to enable all controls or enable desired controls by checking individual control checkboxes

2. Give each control a descriptive **Name**. E.g. "Turn light on".

3. Set **Video Loss on** if applicable. This function will trigger the selected control when Video Loss is detected on one or more associated channels. In the example above, Control 3 ("Sound alarm") will be activated when Video Loss is detected on Channel 1. The control will stay on for the duration of **Dwell(Sec)** time OR it may stay on indefinately until the video loss is resolved if the applicable setting is configured in System Setup tab. (See System Setup tab for more info)

4. Set the **Begin Time** and **End Time** for each control if required. In the above example, Control 2 (Turn light on) is continuously on between 8:30AM and 5:00PM.

5. Enter the **Dwell(Sec)** time for the control. In the above example, Control 2 (Turn light on) will stay on for 10 seconds if the associated sensor is triggered outside of the Active Time. The rest of the controls are set to the default dwell time of 5 seconds.

6. Click the **Save** button to save the configured settings

Related Topics: Hardware Setup-Sensor Settings | Motion Setup | System Setup | E-Map Setup | Intelli-Guard™ | Intelli-Zone™ | Video Setup

1.4.3. Hardware Setup - Sensor Settings

1.4.3.1. Overview

Important
Only Administrator User, i3dvr, has permission to configure this setup.

Tip
Hardware Setup tab can be hidden from select users in User Management setup tab.

To access Sensor settings, click the "Sensors" buttons to expand Sensors menu. SRX-Pro Server v.2.3 and higher support multiple I/O devices, e.g. USBIO and UIO8 input/output devices can be supported on the same unit bringing the total number of controls and sensors to 10 respectively. Inputs/outputs from each I/O device will be grouped together with their respective device in the Hardware Setup tab. Click on the plus sign "+" next to the I/O device name in Controls and Sensors sections of Hardware Setup tab to see all inputs/outputs supported by the device. In the example below, ADIO-1616 supports 16 control sensors.

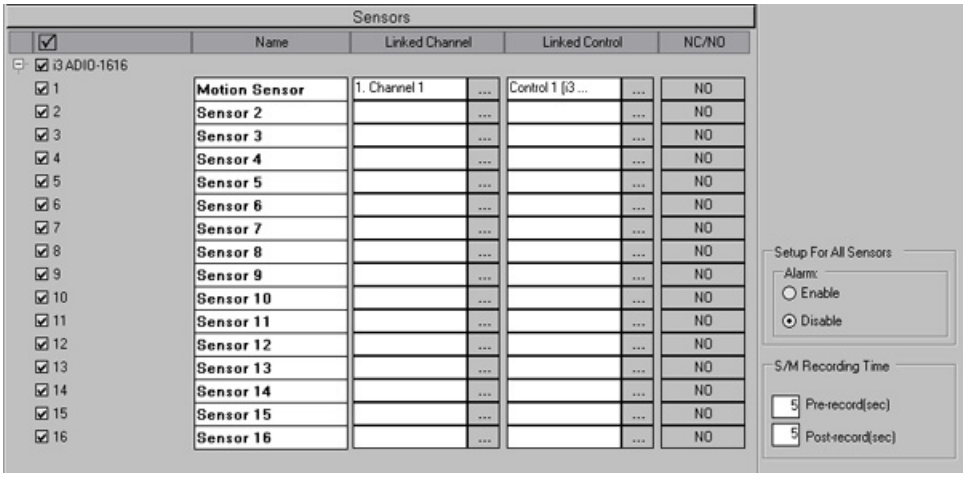
In the Sensor Settings the user can configure the connected sensors. Sensors must be set as NC or NO (NC = Normally Closed; NO = Normally Open) as per sensor device specifications.

Electrically, sensor (input) devices are classified as normally open and normally closed. The term “normally” refers to the state of the device in its resting position — without any external forces acting on it.

A **NC** sensor is any sensor with an electrical circuit closed by default. A normally closed sensor is one that normally allows electrical current to flow and which prevents the current flow when it is perturbed. In other words, NC contact will carry electricity until it is activated.

A **NO** sensor is any sensor with an electrical circuit open by default. A normally open sensor is one that normally prevents current flow and which allows current to flow when it is perturbed. In other words, NO contact will not carry electricity until it is activated.

1.4.3.2. Creating/Modifying Sensor Settings



To configure the available sensors, do the following:

1. Check the **All** checkbox to enable all sensors or enable desired sensors by checking individual sensor checkboxes.

2. Assign a descriptive **Name** to each sensor. For example, the sensor could be named based on the sensor function or trigger (e.g. "Fire on 1st floor").

3. Assign a **Linked Channel** to the desired sensors. Click the **Browse** button ... to select the desired channel from the list. If the specific sensor is triggered, the selected channel will begin recording. In the above example, if Sensor 1 is triggered, Channel 1 will start recording.

Important
Schedule Setup must be properly configured for sensor recording.

By linking video channel to a sensor, the emergency frame rate recording can be configured for the linked camera. See Recording/Display section for more information.

4. Assign a **Linked Control** to the desired sensors. Click the **Browse** button ... to select the desired control from the list. If a specific sensor is triggered outside of the Control Active Time, the selected control is activated. In the above example, if Sensor 1 (Motion Sensor) is triggered, Control 1 will be activated.

5. Click the **NC/NO** to set the sensors to **NC** (Normal Closed) or **NO** (Normal Open) depending on the type of the sensor. Follow the manufacturer's specification.

6. Choose **Enable** to have the alarm sound every time the sensor is triggered

   OR

   Choose **Disable** to disable the alarm

7. Set the **S/M/VL Recording Time**. The VMS/NVR will record for the number of seconds specified prior to and after sensor activation, motion detection or any VideoLogix event up to a maximum of 10 seconds. The system keeps a 10-second video buffer that can be added to the beginning of recorded video segment in case of VideoLogix even, sensor activation or motion detection. In the example above, the video channel(s) will record for 5 seconds prior to sensor activation/motion detection/VideoLogix event and for 5 seconds after the sensor activation/VideoLogix event or after the motion has stopped. The pre- and post-record length cannot exceed 10 seconds.

Important
Motion and Schedule Setups must be properly configured for motion recording. Hardware and Schedule Setups must be properly configured for sensor recording. VideoLogix and Schedule Setups must be properly configured for VideoLogix recording.

8. Click the **Save** button to save the configured settings

Related Topics: Hardware Setup-Channel Settings | Hardware Setup-Control Settings | Schedule Setup | Communication Setup | Server Info | System Setup | E-Map Setup | Email Setup | Video Setup | VideoLogix Setup

1.4.4. Hardware Setup - Spot Monitor Setup

1.4.4.1. Overview

Important
Only Administrator User, i3dvr, has permission to configure this setup.

Tip
Hardware Setup tab can be hidden from select users in User Management setup tab.

The Spot Monitor section allows the user to view selected video inputs on an spot monitor (if available). The spot monitor should be connected to the VMS I/O Board. Video inputs will be displayed one-by-one in a sequence with a configured delay time.

Please note that Video Input is a physical camera and the Video Input number is determined by the BNC connector number in the back of the VMS.

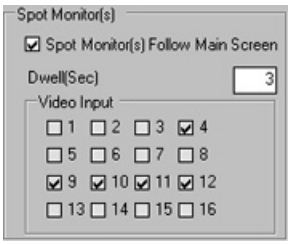
1.4.4.2. Creating or Modifying Spot Monitor Settings

Before configuring this section, make sure that the spot monitor is properly connected to the VMS.

If your system has ADIO-1616 I/O board installed, connect your spot monitor to the BNC connector on the I/O board.

If your system has AD-3016 capture card installed, connect your spot monitor to the second or third BNC port on the capture board.

When spot monitor is connected to the AD-2016/AD-2816 capture board, the spot monitor will always follow the the screen division set in Real-time display mode.



To configure an spot (external) monitor for sequential switching, do the following:

1. Select the video input number(s) to be shown in the sequence. You may select just one number to display the same camera on the spot monitor. The Video Input number refers to the physical BNC connector number at the back of the VMS. (i.e. the Video Source in the Channel Settings setup). In this example, cameras 4, 9-12 will be shown in a sequence on the spot monitor.

2. Specify **Dwell(Sec)** time for the sequence. Dwell(Sec) refers to the interval (in seconds) between each video input in a sequence. In this example, each video input will be shown on the spot monitor for 3 seconds.

3. Check the **Spot Monitor Follow Main Screen** checkbox to associate the spot monitor with the SRX-Pro Server Main Screen, if desired.

   If **Spot Monitor Follow Main Screen** is unchecked, the spot monitor will display selected video source inputs one-by-one in a sequence.

   If **Spot Monitor Follow Main Screen** is checked, the selected sequence will continue until a channel is displayed in the full screen mode of the SRX-Pro Server's main screen: manually by user or in response to detected motion (Motion Setup). The sequential switching pattern will then be interrupted temporarily to display the channel currently in the Full Screen mode. After the configured Dwell(Sec) time elapses, the spot monitor will return to the original sequence. In this example, after displaying the channel currently in full screen mode for 3 seconds, the spot monitor will continue showing cameras 4, 9-12 in a sequence, 3 seconds apart.

4. Click the **Save** button to save the configured settings

Related Topics: Hardware Setup-Channel Settings

1.4.5. Motion Setup

1.4.5.1. Overview

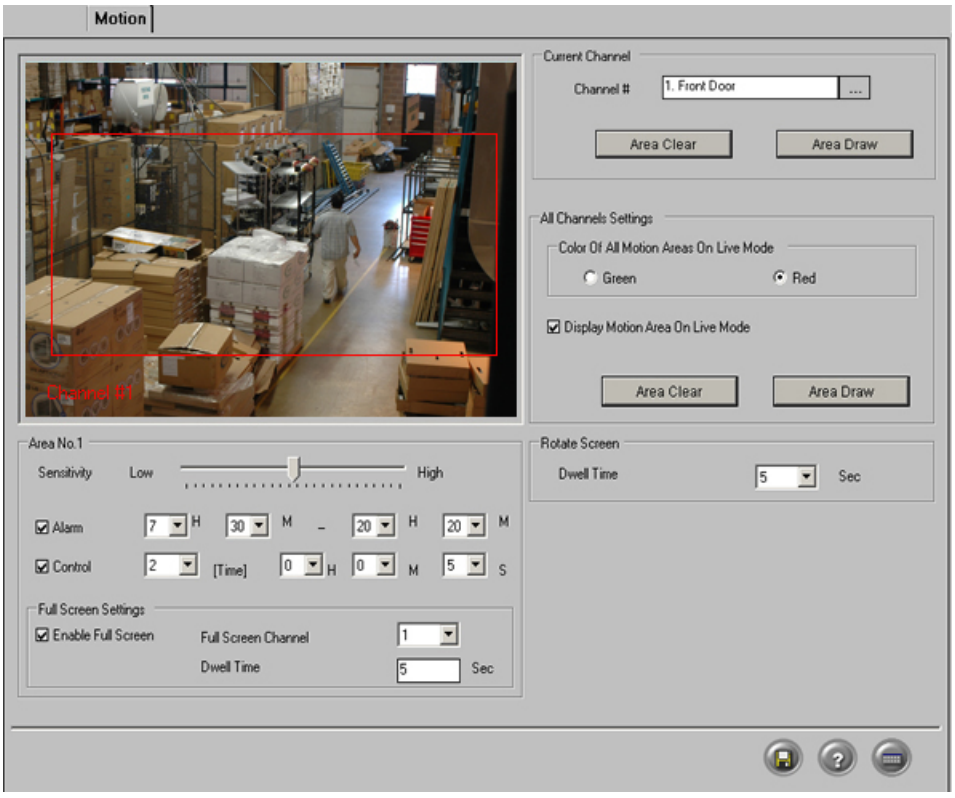
Motion Setup allows for the configuration of motion detection zones for each channel. Each target zone can have its own motion detection configuration.

Caution

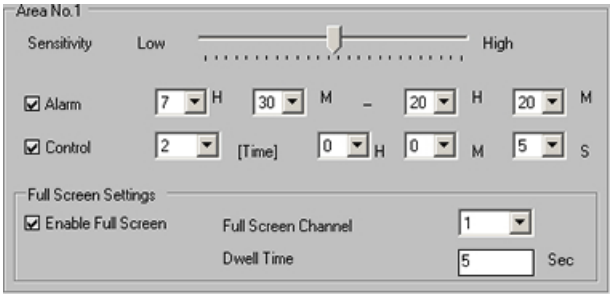
Unless Motion recording is set in the Schedule Setup, the channel will not record and motion will not be detected even if the Motion detection target zones are configured for this channel.

Note

Motion detection must be enabled in order to use emergency frame rate recording with the selected channel. Emergency frame rate will not be used if the motion detection is disabled on a desired channel.



1.4.5.2. Setting up a target zone for motion detection



To set up a target zone for a specific channel, do the following:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button ... to select the desired channel from the list, selected channel will be displayed in the live view window.
2. Draw the motion detection zone on the selected channel.
   a. Place the cursor at the starting point on the live view screen
   b. Hold down the left mouse button and drag to draw a rectangular area. Adjust the area if necessary
   c. Repeat steps 1-2 to configure up to 5 (five) motion detection areas.
3. OR Click **Area Draw** to set the entire channel screen for motion detection. Click **Area Clear** to reset all motion detection zones on a specified channel

4. Select the desired motion detection area on the live view screen to activate the area settings. The selected area is highlighted in red. If the entire channel screen is configured for motion detection, click inside the live view screen to activate area settings.

Note
The area settings are configured individually for each motion detection area.

5. Set the **Sensitivity** for the selected motion detection zone. The higher the Sensitivity, the less change in an image is needed to set off the alarm. If the Sensitivity is set to Low, the change in an image will have to be dramatic to be detected as motion. This function only works properly indoors. The natural changes an outdoor environment (e.g. clouds) can cause false alarms.

6. Check the **Alarm** checkbox to enable the internal speaker alarm for selected motion detection zone

7. Set the Alarm active time. If motion is detected outside of the active time, the Alarm will not go off. In this example, the Alarm is active from 7:30AM to 8:20PM on Area No. 1 on Channel

8. Check the **Control** checkbox to enable a control association for the selected motion detection area.

9. Choose the control number to be associated with the motion detected in the selected motion detection area. In the example above, Control 2 will be activated if motion is detected in the Area No. 1 on Channel 1.

10. Set the **[Time]** for the Control feature. This is the length of time that the control will stay on, if activated by motion detection. In the example above, the Control 2 will stay on for 5 seconds if motion is detected on Area No. 1 on Channel 1.

11. Click the **Save** button to save the configured settings

Full Screen on motion function

Tip
To activate Full Screen Settings, the motion detection has to be drawn and selected in the live view window.

When configured, this function will display the configured channel in full screen mode every time motion is detected in the selected motion detection zone(s). Note that if audio is configured for this channel, it will also be heard as long as the channel remains in the full screen mode.

To configure the full screen function, do the following:

1. Draw and select the desired motion detection area on the live view screen

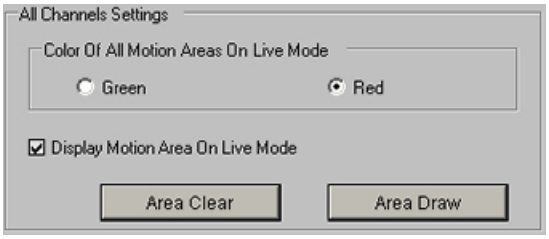
2. Check **Enable Full Screen** checkbox to enable the full screen on motion function for the selected area

3. In the **Full Screen Channel** drop-down menu choose the video channel that will be displayed in Full Screen mode when motion is detected on the selected area. The channel that will be displayed in Full Screen mode does not have to be the same channel, where the motion has occurred.

4. Set the **Dwell Time** (sec) for the Full Screen Channel function. In the example above, Channel 1 will remain in Full Screen mode for 5 seconds, after motion has been detected in the Area No. 1 on Channel 1.

5. Click the **Save** button to save the configured settings

1.4.5.3. Setup For All Channels



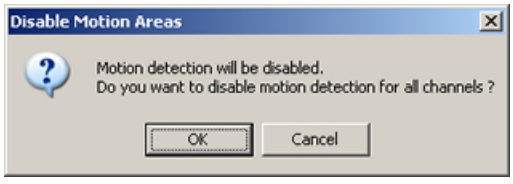
To configure all channels, do the following:

1. Choose the **Color Of All Motion Areas On Live Mode** between Green and Red depending on personal esthetical preferences. When the motion is detected on a specific camera, the triggered motion detection zone will be highlighted on the main screen in the chosen color.

2. Check the **Display Motion Area On Live Mode** checkbox to display the motion detection area outline on Live Mode when the motion is detected.

3. Click **Area Draw** to select the entire screen on all channels for motion detection

4. Click **Area Clear** to clear all selected zones on all channels. This will disable motion detection



5. Click the **Save** button to save the configured settings

1.4.5.4. Rotate Screen

The Rotate Screen dwell time specifies the delay time for channel rotation on the main screen. Set **Dwell Time** (1 to 30 seconds).

Click the **Save** button to save the configured settings

When the main screen is set to 4 channel division and the **Rotate** button is clicked, available channels will rotate according to the dwell time specified. In this example, the quad screen will display the next 4 channels every 5 seconds.

Related Topics: Hardware Setup-Channel Settings | Hardware Setup-Sensor Settings | Schedule Setup | Video Setup

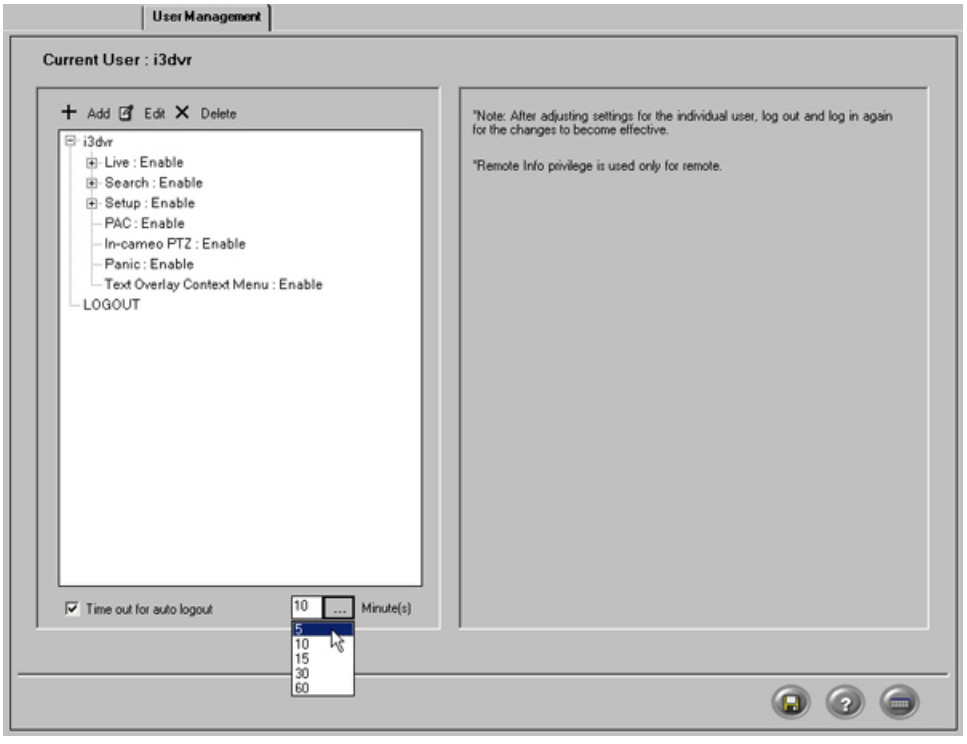
1.4.6. User Management Setup

1.4.6.1. Overview

In the User Management Setup, user accounts can be created, deleted and modified.

User Management setup allows limiting system access for the selected users. The following can be configured for **each** individual user:

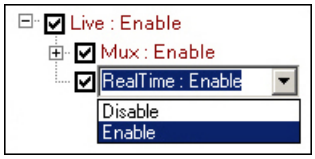
1. Enable/disable certain SRX-Pro Server functions, such as PAC, In-cameo PTZ, and/or Panic
2. Enable/disable user permissions such as text overlay context menu.
3. Display/hide selected video channels
4. Enable/disable PTZ capabilities for selected video channels
5. Enable/disable search capabilities for selected video channels
6. Enable/disable backup capabilities
7. Hide/protect from editing/allow modification of selected setup pages



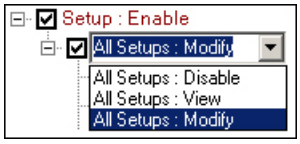
When configuring permissions/privileges for the selected user, remember the following:

1. Entries in black font cannot be modified. Entries in red font can be modified.
2. Double-click on any red entry to display the drop-down menu.
3. For the setting to take effect, put a checkmark in the corresponding checkbox. If unchecked, the setting will be treated as **Disabled**.

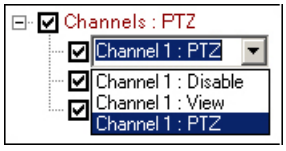
4. Certain functions can be **Enabled** or **Disabled**. E.g. Mux or RealTime display on Live mode



5. Some functions can be set to **Modify** (can be modified), **View** (cannot be modified) or **Disable** (hidden). E.g. Setup tabs.



6. PTZ channels can be set to **PTZ** (enable PTZ capabilities), **View** (view only, disable PTZ capabilities) or **Disable** (hidden). E.g. Channels : PTZ



1.4.6.2. Default Users

Two default users are automatically created by SRX-Pro Server and cannot be deleted: **i3dvr** (administrator user), **LOGOUT** user (live view privileges only).

i3dvr master user

- this user *may not* be deleted
- the only administrator user
- the only user that may change Storage Setup settings, allocate storage drives or shutdown the SRX-Pro Server (specific key combination required)
- the password for this account may only be changed by **i3dvr** user itself
- user privileges *may not* be changed for this account

LOGOUT user

- this user *may not* be deleted
- the only user without password
- the user may only view selected video channels on Live (Mux) mode. Real-time display and all PTZ camera functions are disabled for the LOGOUT user.
- this account allows the users to view specified video channels on Live mode without having to log in.
- no other user privileges may be assigned for this account

Caution

Be selective when assigning video channels to the LOGOUT user account. Remember that essentially everybody has permission to view these channels as they will always be displayed on Live Mode when the SRX-Pro Server is logged out.

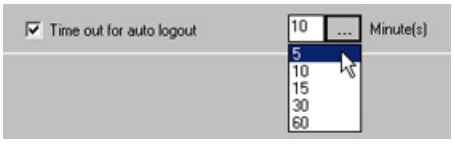
Note
The auto logout is configured for all users.

1.4.6.3. Auto Logout

This feature logs out any current user after the set period of inactivity. Choose between the following inactive time options: 5, 10, 15, 30, or 60 minutes.

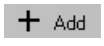
If the **Time out for auto logout** checkbox is checked off and the logout time is configured, the users will be automatically logged out after the specified time of inactivity.

When the current user is logged out, the LOGOUT user is automatically logged in. All video channels that are assigned to LOGOUT user account will be visible on the Main Screen while the SRX-Pro Server is logged out.

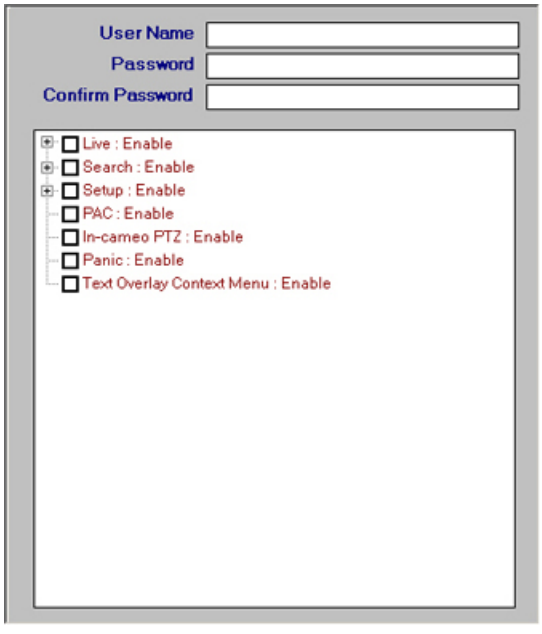


1.4.6.4. Creating new user accounts

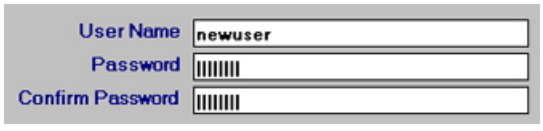
In order to create a new user account, do the following:

1. Click the **Add** button. 

   A dialog window will be displayed in the right pane for inputting new user information.



2. Enter the *User Name* and **Password** (between 3 and 60 characters). Re-enter the password in the **Confirm Password** field. Copy and paste function is not supported, the password must be manually re-entered.

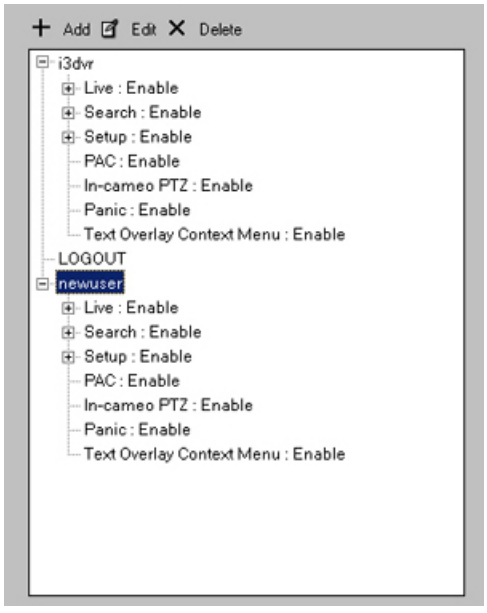


3. Configure the user's Live, Search, Backup, Setup and other privileges. See following sections for more information.

Warning

When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

4. Click **Add User** to add new user to the list or click **Cancel** to discard changes. After **Add User** is clicked, new user will be added to the list on the left-hand pane.



5. Click the **Save** button to save the configured settings.

1.4.6.5. Configuring user Live privileges

By configuring user Live privileges, it is possible to:

- limit user's access to live video
- hide specific video channels from the user on live mode
- enable/disable Real-time display option for the user
- limit user's PTZ privileges

Warning

When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

1. Enable or disable user's access to the **Live** mode By default, the Live mode and all channels are disabled (hidden).

   When **Live : Enable** checkbox is checked, all live channels and their PTZ functions are enabled and available to the user.

   When Live mode is unchecked (disabled), the opposite is true: no video channels will be displayed on Live mode and no PTZ privileges are given to the user. By default, the Live mode (both Mux and Real-time display) and all video channels are unchecked (disabled).

Caution

When disabling Live mode for the user(s), make sure to do the same for the LOGOUT user. Otherwise all channels enabled for LOGOUT user will be displayed on Live mode.

2. Enable or hide certain video channels from user

   a. Click the plus sign next to **Mux : Enable** entry to display the list of all available video channel

   b. Uncheck those channels that will be hidden from the user on Live mode. Live video will be unavailable for all hidden channels

When **Mux : Enable** checkbox is checked, all channels are enabled and PTZ functions for all channels are available to the user.

Note that all unchecked channels will be hidden in the Tree view, but will still be highlighted red in Advanced View when recording.

Tip

Hiding the video channel from user(s) does not disable the video channel on the system and does not hinder normal video recording process.

Important

If the channel is unchecked in the list, it will be treated as hidden/disabled in the Live mode.

Caution

When hiding certain channels from the user(s), make sure to disable the same video channels for the LOGOUT user. Otherwise all hidden channels will be exposed upon manual or auto logout.

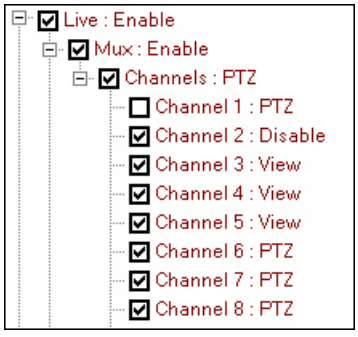
3. Enable or disable PTZ functions for certain video channels

   a. Double-click on the desired channel to display drop-down menu

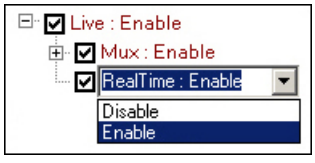
   b. Select **View** in the drop-down menu

   In the example below, Channels 1 and 2 will be hidden from the user on Live mode. Channels 3-5 will be available for viewing only, if PTZ video inputs (cameras) are assigned to these channels, the user will be unable to control them. Channels 6-8 will be available for viewing and can be controlled by the user.

   Note that even though Channel 1 is set to PTZ in the example below, the checkbox is not checked, which makes Channel 1 disabled/hidden.



4. Enable or disable Real-time display for the user.



   Real-time display should be unchecked (disabled) if any channels were unchecked (disabled) in steps 2-3. Real-time display displays every connected analog video input, which will expose any and all hidden channels.

1.4.6.6. Configuring user Search/Backup privileges

By configuring user Search/Backup privileges, it is possible to:

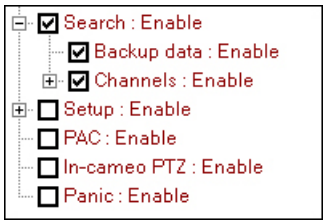
Warning

When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

- limit user's access to search mode
- hide specific video channels from the user on search mode
- prevent the user from completing backup sessions

1. Enable or disable user's access to the **Search** mode. By default, the Search and Backup for all channels are disabled.

   To enable backup AND search privileges for all channels, check the **Search : Enable** checkbox.



2. To enable ONLY search for *all* video channels,

   a. Click the plus sign next to **Search : Enable** entry

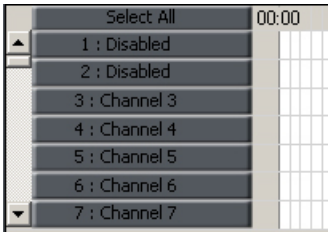
   b. Uncheck the **Backup data : Enable** checkbox

   c. Check the **Channels : Enable** checkbox

3. To disable search for *selected* channels,

   a. Click the plus sign next to **Channels : Enable** entry

   b. Uncheck the channels to disable search privileges. Unchecked channels will not be available for search in the Search mode (see image below). The Live search capabilities will, however, remain available.



4. Enable or disable Backup window for the user.

   To enable the Backup window, check the **Backup data : Enable** checkbox . When disabled, new backup sessions can be created, but cannot be accessed/completed by the user.

1.4.6.7. Configuring user Setup privileges

By configuring user Setup privileges, it is possible to:

- limit user's access to Setup mode
- hide specific setup tabs from the user
- prevent the user from modifying all or certain setup configurations

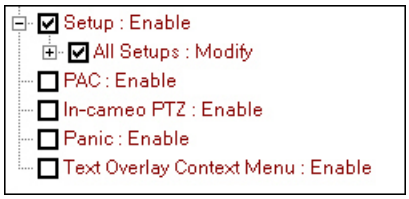
Every setup tab except for **Remote Info** can be hidden from user and every setup tab, except for **Storage**, can edited by any user other than administrator.

Warning

When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

1. Enable or disable access to the SRX-Pro Setup for the selected user. By default, the user has no access to SRX-Pro setup.

   To enable access to all setup tabs and permit setup modifications, check the **Setup : Enable** checkbox.



2. Enable or hide certain setup tabs from user

   a. Click the plus sign next to **Setup : Enable** entry and then next to **All Setups : Modify** entry to display the list of all available setup tabs

   b. Uncheck those setup tabs that will be hidden from the user on Setup mode

3. **To protect certain setup tabs from editing do the following,**

   a. Click the plus sign next to **Setup : Enable**entry and then next to **All Setups : Modify** entry to display the list of all available setup tabs

   b. Double-click on the desired setup tab and select **View** in the drop-down menu. When the setup tab is protected from editing, all contents appear grayed out to the user.

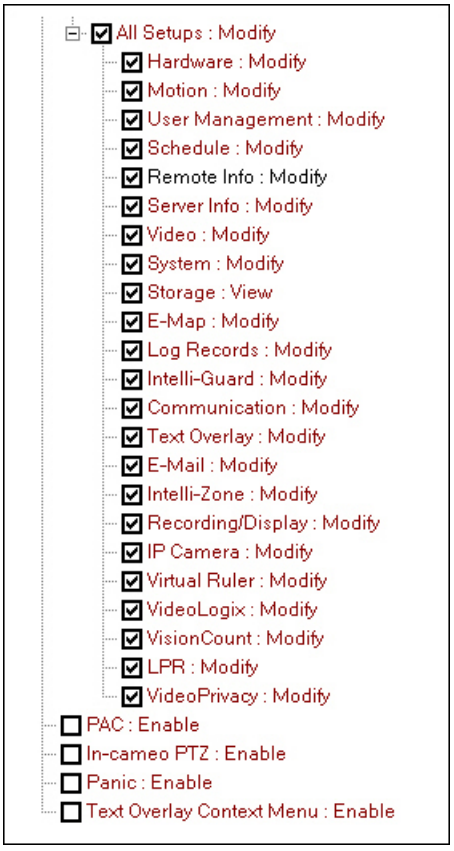
   In the example below, all setup tabs will be displayed and available for modifications. (Except for Storage Setup, which can only be viewed).

Important

If unchecked, the setup tab will be treated as hidden/disabled.

Note

Setup tabs will vary based on SRX-Pro software.



1.4.6.8. Configuring user Misc privileges

By configuring user Setup privileges, it is possible to:

- limit user's access to PACDM software application
- limit user's access to in-cameo PTZ feature
- limit user's access to Panic backup function
- limit user's access to Text Overlay context menu

Warning
When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

1. Check **PAC** checkbox to enable PAC application. To disable application, leave the checkbox unchecked.
2. Check **In-cameo PTZ** checkbox to enable the built-in mouse PTZ controls in PTZ mode. To disable in-cameo mouse function, leave the checkbox unchecked.
3. Check **Panic** checkbox to enable the panic backup function and the Panic button on the Main Screen. To disable, leave the checkbox unchecked.
4. Check **Text Overlay Context Menu** checkbox to enable user access to the context menu on Live Mode that allows hiding/displaying text overlay. To disable, leave the checkbox unchecked.

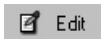
1.4.6.9. Editing existing user accounts

It is possible to change password and/or privileges for existing user accounts.

Note
Privileges for administrator user (i3dvr) cannot be changed. Only administrator user (i3dvr) can change the password for its own user account.

Warning
When limiting user's privileges in any way, make sure to hide User Management tab in order to prevent the user from changing his/her own privileges.

To edit password or privileges for existing user account, do the following:

1. Select desired user account from the user tree list on the left-hand pane.
2. Click the **Edit** button 

3. Change user password if desired. Entries in the **Password** and **Confirm Password** fields must match.
4. Modify user privileges as desired. See previous sections for more information.
5. Click **OK** to finalize changes
6. Click the **Save** button to save the configured settings.

1.4.6.10. Deleting existing user accounts

Note
Default i3dvr and LOGOUT users may not be deleted.

To delete an existing user account, do the following:

1. Select desired user account from the user tree list on the left-hand pane.
2. Click the **Delete** button

3. Click **Yes** in the warning window
4. Click the **Save** button to save the configured settings

1.4.7. Schedule Setup

1.4.7.1. Overview

Schedule Setup controls the type of recording for each channel: Continuous, Motion, Sensor or Sensor + Motion. The schedule settings can be configured for each channel independently. The schedule settings from any channel can be copied to any other channel(s). The following types of recording are available for each channel:

Continuous recording – the selected channel records continuously. Continuous video recordings take up a lot of the hard drive space. Continuous video recording is required to use emergency frame rate feature. Color code: pink

Emergency Frame rate recording - this type of recording may only be used in combination with the continuous video recording. Emergency frame rate recording means that the selected channel will record continuously at a set frame rate until the motion is detected or until linked sensor is triggered; as soon as the motion is detected/sensor is triggered the selected channel will begin recording continuously at a higher (emergency) frame rate that is configured in Recording/Display setup tab. The recording frame rate will go back to the original setting 10 seconds after the sensor has been triggered or after the motion has ceased. See Emergency Frame Rate Recording section for more information. The emergency-frame-rate type video recording is displayed in red color on search. Color code: pink

Sensor recording – the selected channel records only when the sensor has been triggered. The sensor has to be enabled and must be associated with a specific channel in the Hardware Setup. Color code: orange

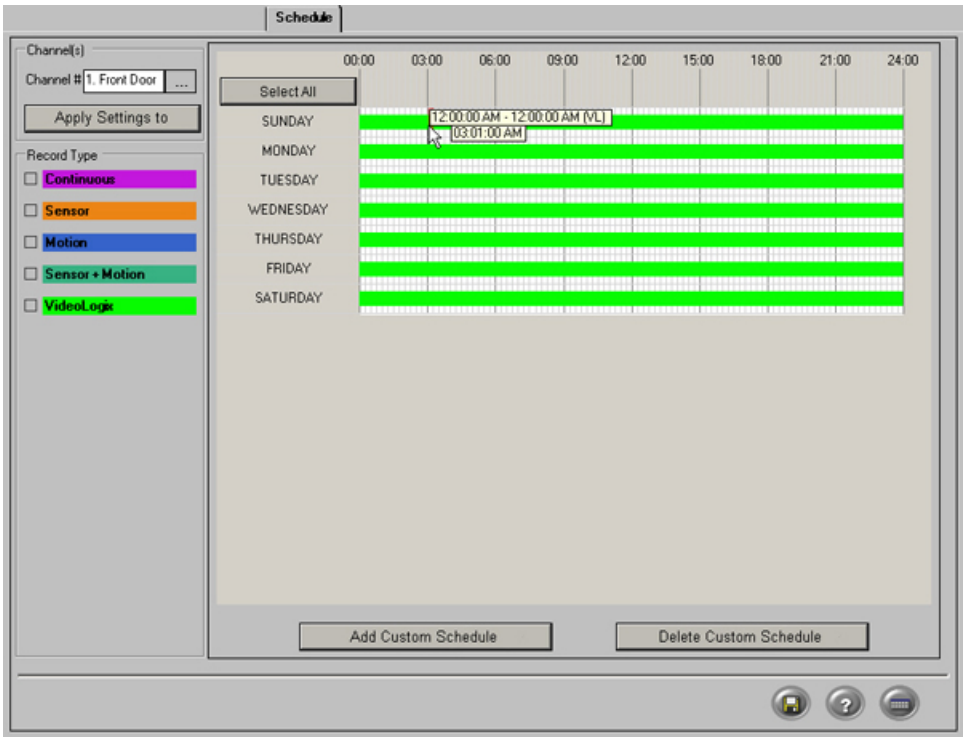
Motion recording – the selected channel records only when motion is detected. Motion detection target zones have to be configured in the Motion Setup. Color code: blue

Sensor + Motion recording – the selected channel records when the sensor has been triggered or motion is detected. The sensor has to be enabled and must be associated with a specific channel in the Hardware Setup. Color code: teal

VideoLogix recording – the selected channel records when a VideoLogix even has occured. The VideoLogix setup tab must be properly configured. Color code: lime

Tip

Each channel can be assigned custom combination of these recording types based on the day of the week and time of the day.



1.4.7.2. Timeline

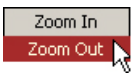
The schedule timeline can be zoomed into for easier navigation.

To zoom into the timeline, do the following:

1. Right-click anywhere on the timeline

2. Select **Zoom In** from the context menu. Repeat if desired.

To zoom out of the timeline, do the following:

1. Right-click anywhere on the timeline 

2. Select **Zoom Out** from the context menu. Repeat if desired.

1.4.7.3. Basic recording schedule

To create a basic recording schedule, do the following:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button

to select the desired channel from the list.

2. A basic recording schedule may be created for:

   a. Entire week (including custom schedule days)

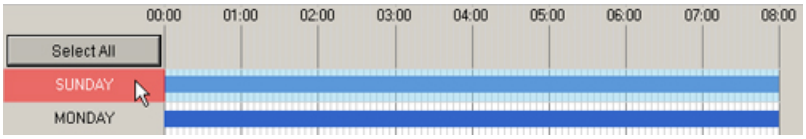
Click **Select All** to select all days of the week, including custom schedule days. Entire recording area will be highlighted in blue.

To deselect, click **Select All** again.

b. Specific day(s)

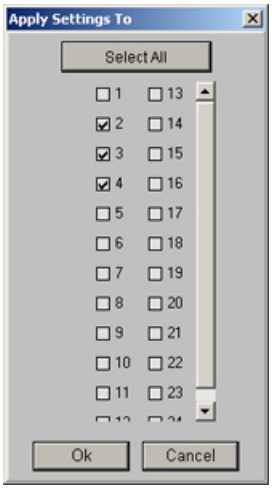
Click **SUNDAY**, **MONDAY**, **TUESDAY**, **WEDNESDAY**, **THURSDAY**, **FRIDAY**, **SATURDAY** or custom schedule to select a day. The selected day will be highlighted in blue.

To deselect a day, click again.



3. In the **Recording Type** menu, check desired checkbox. Select on of the following recording modes: Continuous; Motion; Sensor; Sensor + Motion

4. Click **Apply Settings to**, in order to apply created recording schedule to other channels. A new window will be displayed. Check the video channel checkboxes to apply existing recording schedule to the selected video channel(s). In the example below, the created schedule will also be applied to Channels 2-4.



5. Click the **Save** button to save the configured settings

1.4.7.4. Advanced recording schedule

Advanced recording schedule allows customizing the recording schedule up to one minute.

To create an advanced recording schedule, do the following:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button to select the desired channel from the list.

2. Position the cursor at the desired day and time on the timeline graph. The bottom pop-up time display will show the exact time.

   In the example below, the cursor is pointed at 1:02 AM.

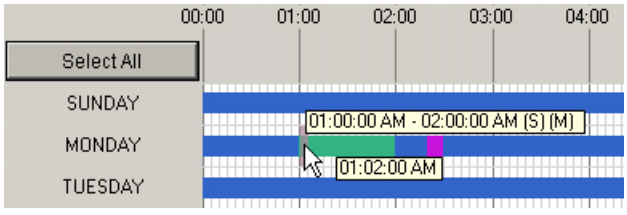
   The top pop-up time display will show the length of the recording type at which the cursor is pointed.

   In the example below, the cursor is pointed at the time block that is scheduled for Sensor + Motion recording. The top pop-up time display shows that the channel is scheduled for sensor and motion recording **(S) (M)** from **1:00 AM** to **2:00 AM**

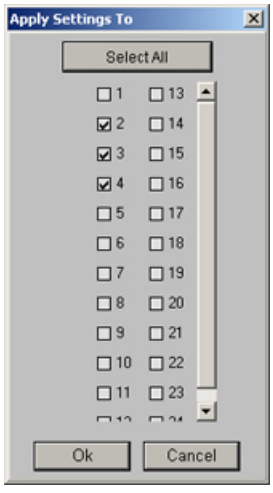
3. To select the desired time, left-click and drag the cursor until the desired area on the timeline graph is selected. The cursor can be dragged in any direction: horizontally to select time within one day or vertically to select more than one day at a time.

4. To deselect, repeat step 3 on the previously selected area on the timeline graph.

5. In the **Recording Type** menu, check desired checkbox. Select on of the following recording modes: Continuous; Motion; Sensor; Sensor + Motion. In the example below, on Monday, the video channel will record based on motion from 12:00 AM till 1:00 AM, from 2:00 AM till 2:20 AM and from 2:30 AM onward; based on sensor + motion from 1:00 AM till 2:00 AM and continuously from 2:20 AM till 2:30 AM.



6. Click **Apply Settings to**, in order to apply created recording schedule to other channels. A new window will be displayed. Check the video channel checkboxes to apply existing recording schedule to the selected video channel(s). In the example below, the schedule created for Channel 1 will also be applied to Channels 2-4.



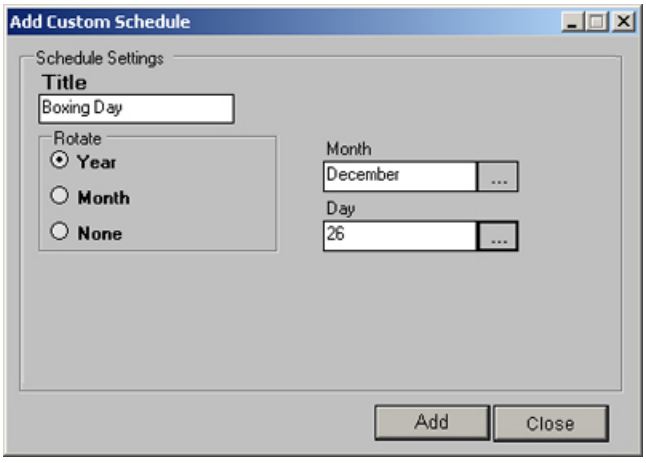
7. Click the **Save** button to save the configured settings

1.4.7.5. Custom schedule

SRX-Pro software allows creating a custom schedule, such as a holiday recording schedule. The custom schedule will override the regular weekly schedule and can be repeated once, monthly or yearly. The custom schedule can be deleted at any time.

To create a custom schedule, do the following:

1. Click **Add Custom Schedule**. A new window will be displayed.



2. Enter *Title* for the new scheduled date. In the example above, the custom name is "holiday".

3. Select the rotation option:

   a. Select the **Year** radio button to rotate the new customer schedule *yearly*.

      For yearly rotation, select the desired **Month** and **Day** of the recording. The custom schedule will be applied once every year based on the configurations. E.g. Boxing Day holidays schedule. The custom schedule title will be highlighted pink on the schedule graph.

   b. Select the **Month** radio button to rotate the new customer schedule *monthly*.

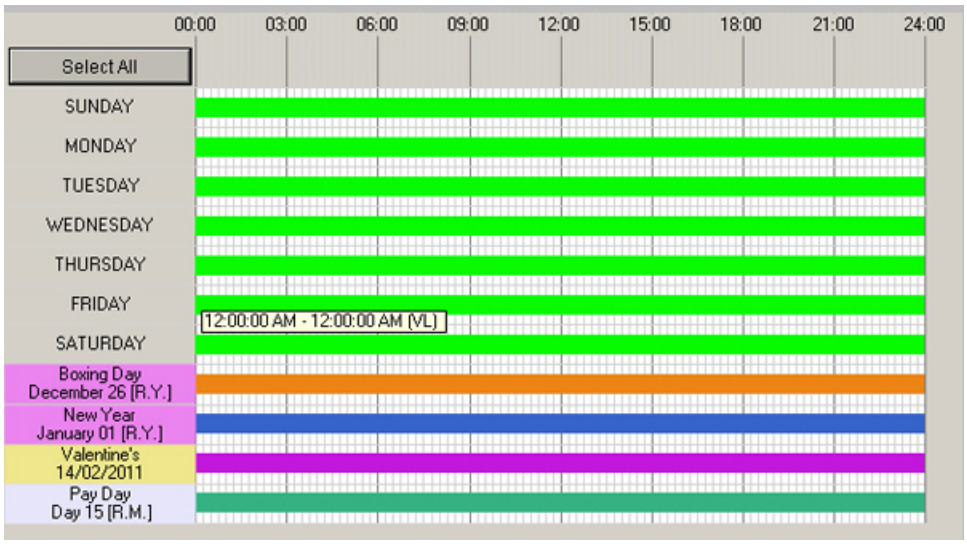
      For monthly rotation, select the desired **Day** of the recording. The custom schedule will be applied once every month based on the configurations. E.g. 15th of every month. The custom schedule title will be highlighted blue on the schedule graph.

   c. Select the **None** radio button to create a custom schedule with no rotation settings.

      To create a unique custom schedule with no rotation, select the desired **Year**, **Month** and **Day** of the recording. E.g. Easter 2008 (since Easter does not fall on the same day every year). The custom schedule title will be highlighted yellow on the schedule graph.

4. Click **Add**. The new custom day will be added to the schedule.

5. Repeat steps 2-4 to create additional custom/holiday schedules.



6. Click **Close** to close **Add Custom Schedule** window

7. Create recording schedule for custom date(s) (See Create a basic recording schedule and Create an advanced recording schedule for more details)

8. To add new custom day(s) to other channels, click **Apply Settings to**, to apply created recording schedule to other channels. A new window will be displayed. Check the video channel checkboxes to apply existing recording schedule to the selected video channel(s).

9. Click the **Save** button to save the configured settings

1.4.7.6. Delete a custom schedule

To delete a custom schedule, do the following:

1. Select a custom schedule by clicking in the custom schedule title on the graph.

2. Click **Delete Custom Schedule**.

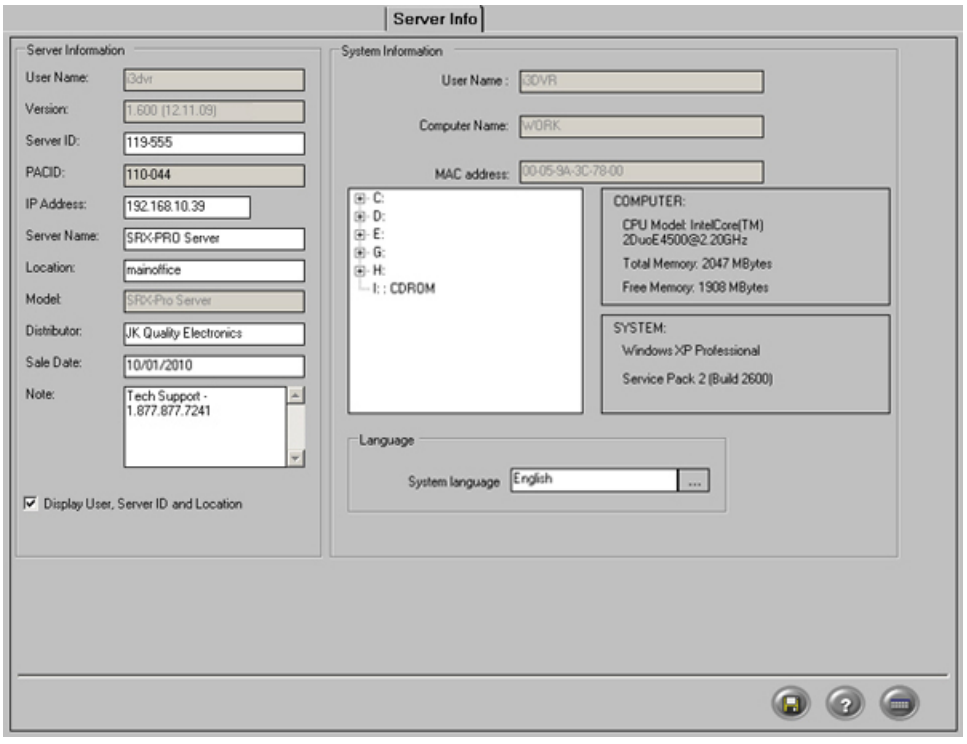
3. Click the **Save** button to save the configured settings

Related Topics: Hardware Setup-Channel Settings | Hardware Setup-Sensor Settings | Motion Setup | Video Setup

1.4.8. Server Info Setup

1.4.8.1. Overview

The Server Info Setup permits configuring the Server, changing the system's language, changing the system IP address, as well as obtaining information about the Server and the VMS.



1.4.8.2. Configuring Server Info Setup

In Server Information area enter the following:

1. **Server ID** (disabled on SRX-Pro Remote. Can only be changed on SRX-Pro Server). Server ID is comprised of up to 31 alphanumeric characters. Please note that Server ID value is **case sensitive**.

2. **IP Address**. You may enter a new IP address or change the one that is displayed. IP Address cannot be changed via SRX-Pro Remote.

Tip
Remember this entry for remote access.

> **Tip**
> Remember this entry for remote access.

3. Server Name (optional)
4. Location (optional)
5. Model (optional)
6. Distributor (optional)
7. Sale date (optional)

   To enter the sale date, select each position (i.e. day, month, year) and enter the desired number on the keyboard. Use virtual keyboard if necessary.

   The date format can be changed in System setup tab. The sale date must be set to the date before the current date.

8. Note (optional)
9. Check/uncheck **Display User, Server ID and Location** checkbox.

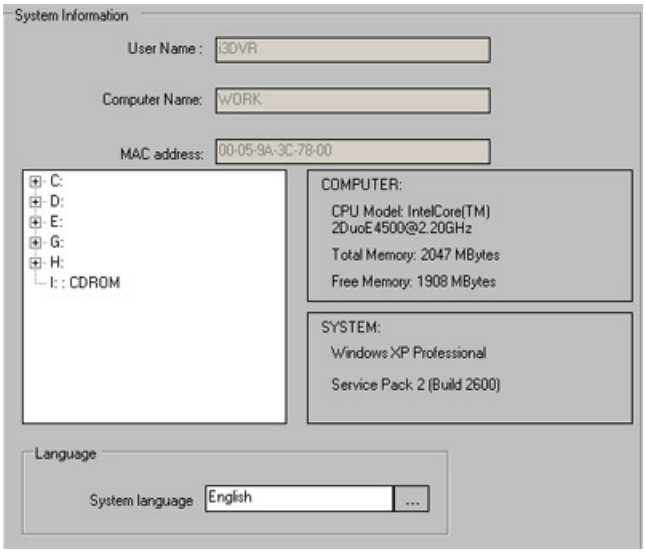
   When checked, the current User logged into the SRX-Pro Server, server Location and Server ID will be displayed on the status bar at the bottom of the main screen. This information is obtained from the Server Info tab.

10. Click the **Save** button to save the configured settings

This section also displays the following (this info cannot be changed):

1. User Name
2. Software Version number with release date
3. PACID (only if PACDM™ software is installed)

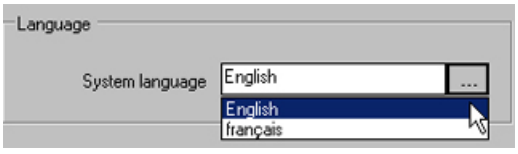
System Information:



This section displays the following (this info cannot be changed):

- User Name (current Windows user)
- Computer Name (configured by manufacturer)
- MAC address
- CPU Model
- Windows operating system version
- Service Pack version
- List of drives/partitions
- Total and free space information
- Total and free memory (RAM) information

1.4.8.3. Language



Two languages are currently supported on the SRX-Pro Server: English and French.

To change system language, select **English** or **Français** from the System Language drop-down menu. This will translate the SRX-Pro Server interface into the appropriate language.

Click the **Save** button to save the configured settings

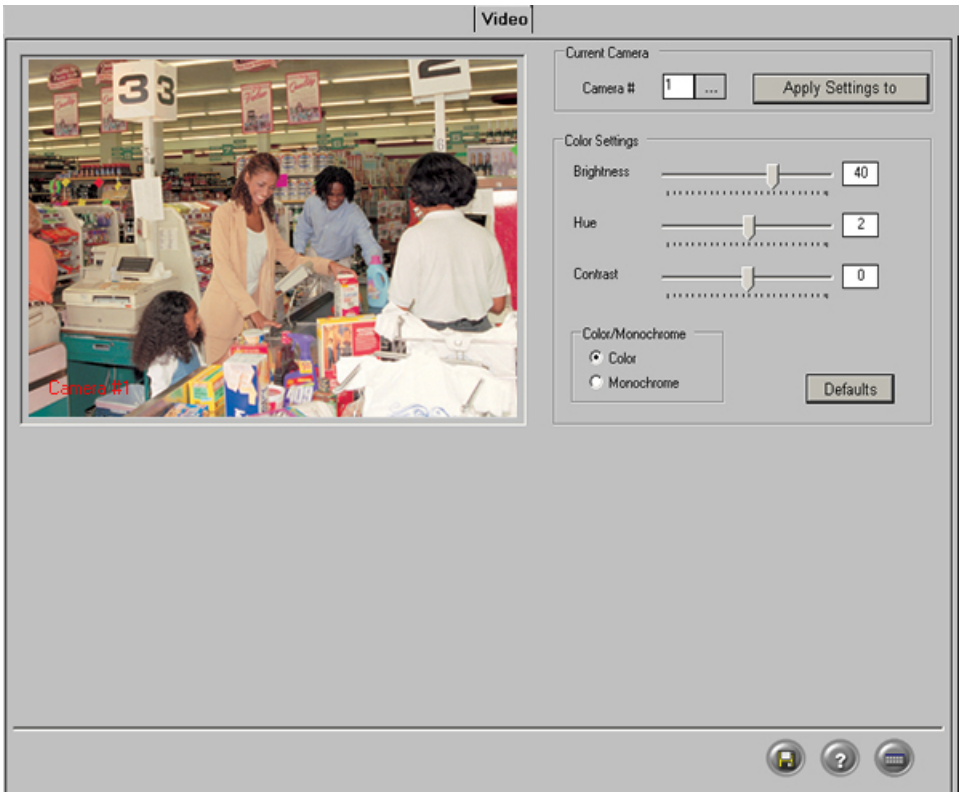
Related Topics: Main Screen

1.4.9. Video Setup

1.4.9.1. Overview

Important
This feature is not supported with IP cameras.

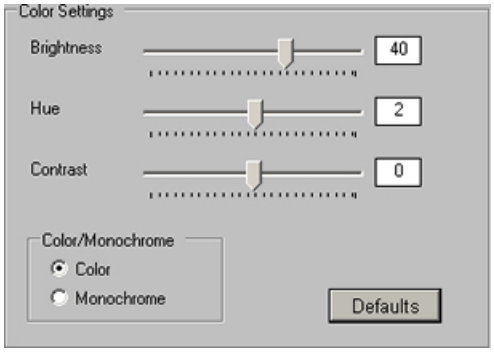
Video Setup allows configuring brightness, hue, contrast and display mode (color/ monochrome) for each video input. The settings are applied based on camera (physical BNC connector number), not based on channel.



1.4.9.2. Configuring color settings

To configure color settings for desired camera, do the following:

1. In the **Current Camera** frame, click the **Browse** button ... to select desired camera from the drop-down menu.
2. In the **Color Settings** frame, set **Brightness, Hue** and **Contrast** for the selected camera using the horizontal sliders
3. In **Color/Monochrome** frame, choose between **Color** and **Monochrome** recording. Color recording provides more realistic video images. Monochrome recording is best suited for low light conditions, such as night time recording
4. Click **Defaults** to reset camera Brightness/Hue/Contrast values back to 0 and to assign Color video recording to the camera.



5. Click **Apply Settings to**, to apply configured color settings to other cameras (not channels). A new window will be displayed.

6. Check the camera checkboxes to apply existing color settings to the selected camera(s) and click **OK.**

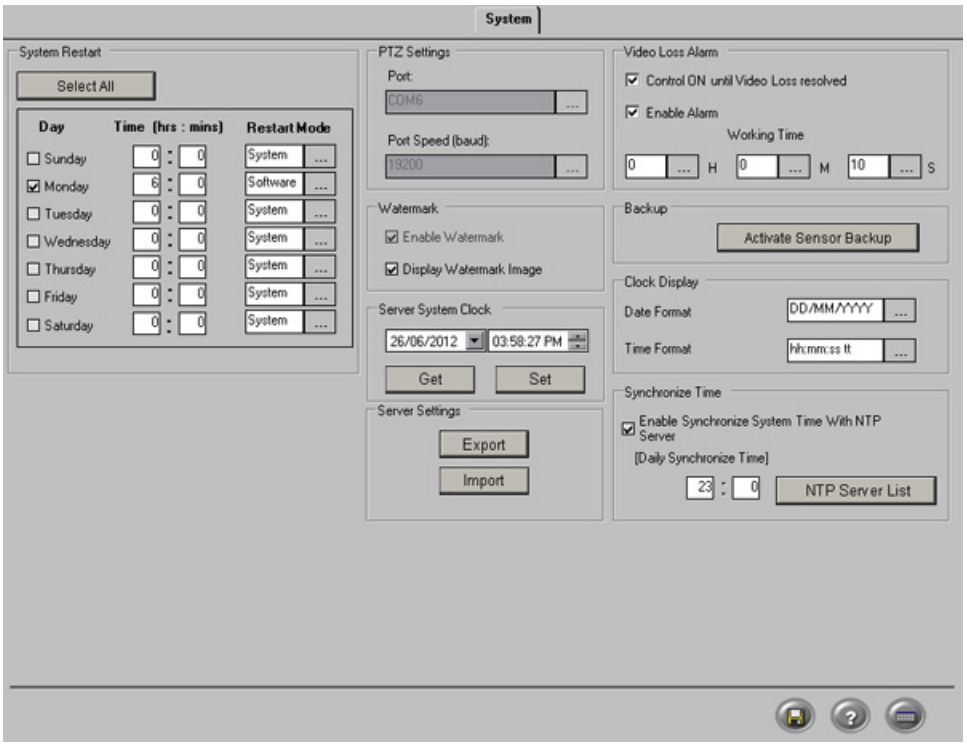
7. Click the **Save** button to save the configured settings

1.4.10. System Setup

1.4.10.1. Overview

In the System Setup tab, the user can:

1. Configure server/software restart time
2. Enable watermarking feature
3. View PTZ Settings
4. Configure alarm for video loss
5. Configure sensor/Panic button backup
6. Modify date display format
7. Configure the Server System time
8. Configure the NTP Server for system time synchronization
9. Import/Export system settings



1.4.10.2. Configure System Restart Time

If the system freezes, it will be restarted by the I/O board. If, however the system is running smoothly without freezing, it can work for months without being restarted. The cache that will accumulate in that period of time will eventually slow the system down. To avoid this problem, it is advisable to set a weekly restart time for the system. You have an option of restarting the entire server or just the SRX-Pro Server software. Manufacturer's default setting will restart SRX-Pro Software every Monday at 6:00AM. You may choose to keep this setting or change it based on the instructions below.

To configure the restart time, do the following:

1. Check individual day checkboxes to select the day(s) for system restart. Click **Select All** to restart VMS daily.
2. Enter the **Time (hrs : mins)** to restart the system

   Note: The time is in 24-hour format.
3. In the **Restart Mode**, select Software or System, where Software is SRX-Pro Server software and System is the VMS. Depending on your selection, SRX-Pro Server software or the entire VMS will be restarted at the configured day and time.
4. Click the **Save** button to save the configured settings

1.4.10.3. Watermarking

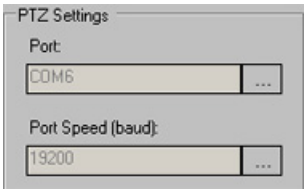
In the **Watermark** menu:

Enable Watermark option is always enabled and cannot be disabled. This option ensures that the recorded video is always watermarked.

Check **Display Watermark Image** to display the word "WATERMARKED" in green font on the watermarked video recordings during playback. Uncheck to hide "WATERMARKED" message during playback.

Click the **Save** button to save the configured settings

1.4.10.4. PTZ Settings



This section displays the **COM port** used for the PTZ camera(s) communications and the default **Port Speed** (baud rate).

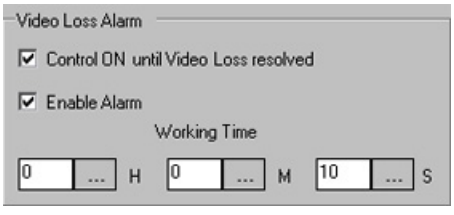
COM6 is a built-in COM port on the I/O board, which is by default assigned to PTZ camera communications.

Port Speed (baud) field displayed the initial default baud rate set by the I/O board. The baud rate set on the PTZ camera will override this initial port speed. This parameter is hard-coded and cannot be modified by the user.

1.4.10.5. Video Loss Alarm

Tip

In the E-Mail Setup tab, check Enable E-mail for Video Loss to receive an e-mail every time video loss occurs on one of the channels.



Video Loss Alarm allows automatically initiating control and/or sound alarm upon video loss of one or more video channels.

To configure the Video Loss Alarm menu, do the following:

1. Check the **Control ON until Video Loss resolved** checkbox to enable control function for Video Loss Alarm. If a control output is linked to a video channel in Hardware Setup tab, and the "Control ON until Video Loss resolved" checkbox is enabled, the linked control will be activated and will remain ON until video input is again detected on the linked channel. See Hardware Setup for more information.

Tip
Take into account the active time for the selected control. The control active time is configured in the Hardware Setup.

2. Click the **Browse** button [...] to select desired control from the drop-down menu. In the example above, Control 2 will be activated after the video loss detection.

3. Check the **Enable Alarm** checkbox to initiate audible alarm after the video loss detection.

4. Set **Working Time** for an audio alarm and selected control. In the example above, after the video loss has been detected on one or more video channels, the audible alarm will sound on the PC speaker for 5 seconds and Control 2 will be activated for 5 seconds (provided the video loss detection does not conflict with control active time, if applicable).

5. Click the **Save** button to save the configured settings

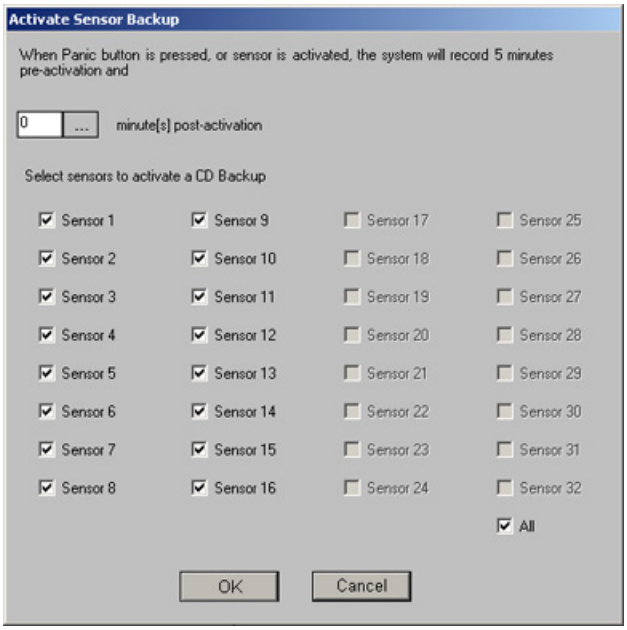
Related Topics: Hardware Setup-Control Settings | E-Mail Setup

1.4.10.6. Panic and Sensor Backup

Tip
To use this feature, ensure that there is a blank CD-R/DVD-R at all times in the optical drive.

Configure the recording settings for the main screen's **Panic** button feature and/or associate the backup with specific sensor(s). If a Sensor is triggered, or the **Panic** button is clicked, an encrypted video backup will be burned onto a CD-R/DVD-R.

By default, the sensor/**Panic** button feature backs up 5 minutes of video recording prior to the sensor/**Panic** button activation. The user, however, can configure the length of time that VMS will record after the sensor/**Panic** button activation.



To associate a backup with the specific sensor(s), do the following:

1. Click **Activate Sensor Backup**

2. In the new window, click the **Browse** button [...] to select from 0, 5, 10, 20, or 30 minute(s) post-activation recording time options

3. Check off the corresponding checkboxes for the desired sensors that will be associated with the backup.

Note
The sensors must be enabled in Sensor Settings in Hardware Setup - Sensor Settings

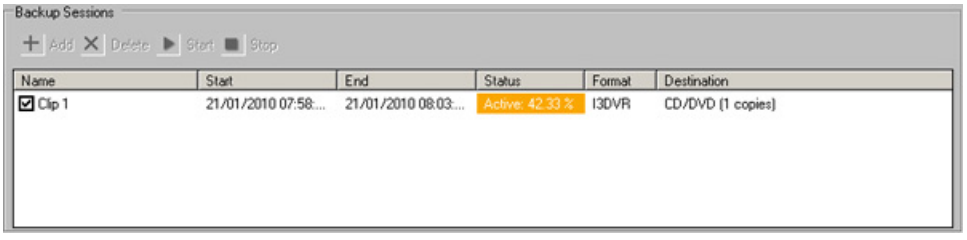
4. Click **OK** or click **Cancel** to discard changes and to return to the Setup.

5. Click the **Save** button to save the configured settings

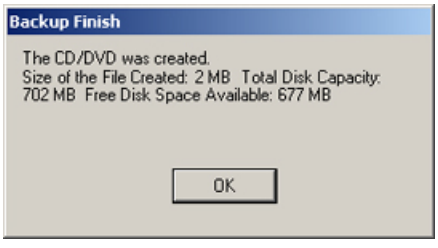
In the example above: When the Panic button is clicked, or sensors 1 or 8 are activated, the encrypted backup will be created to the CD-R/DVD-R that will include 5 minutes of pre-activation and 10 minutes post-activation of video recording (total - 15 minutes long).

To view the backup progress, enter the Search Mode by clicking the Search Mode button on the main screen or by going to **Tools -> Backup** menu.

While the panic backup is in progress, the existing backup sessions cannot be edited/deleted and new backup sessions cannot be created.



Once the backup has completed, the following message will be displayed and the CD/DVD will be ejected.



Related Topics: Hardware Setup-Sensor Settings

1.4.10.7. Clock Display

Clock Display format permits changing the date and time display formats. This setting will affect the way time and date is displayed on the main screen and in other setup tabs (such as Log Records, Server Info, etc.)

To configure date/time date display format, do the following:

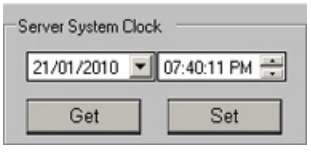
1. Click the **Browse** button ... in the **Date Format** field to select desired date format from the drop-down menu

2. Select from 3 available options: DD/MM/YYYY; MM/DD/YYYY; YYYY/MM/DD

3. Click the **Browse** button ... in the **Time Format** field to select desired time format from the drop-down menu
4. Select from 2 available options: hh:mm:ss tt (AM/PM option); HH:mm:ss (24-hour clock option)
5. Click the **Save** button to save the configured settings

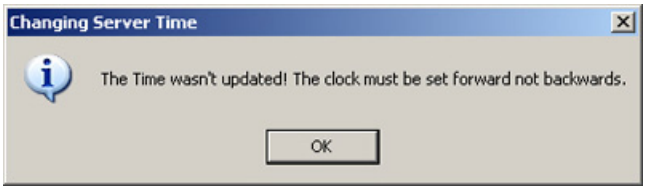
1.4.10.8. Server System Clock

The clock can only be set forward, not backwards. To set the clock back, exit the software and adjust the time in the Windows operating system. If the time is set forward in the Server, it will automatically be applied to the Windows system time.



If the time change has been successful, the following window will appear:

If an attempt was made to set the time backwards, the following window will appear:

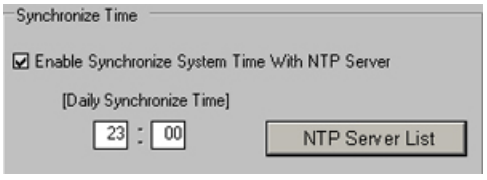


1.4.10.9. NTP Time Server

This feature allows daily synchronizing the DVR system clock with one of the default NTP servers. This function allows keeping the system time up-to-date without having to log out of the SRX-Pro Server and updating the system time via Windows OS.

To use this feature, check off **Enable Synchronize System Time With NTP Server** checkbox.

Configure the **Daily Synchronize Time** (24 hour clock). The system time will be synchronized daily based on the configured time. The process may take several minutes.



To select an NTP server, click **NTP Server List**. In the NTP Server List window, erase all NTP server entries except for the one that corresponds to your geographical location.

E.g. If located in US, leave us.pool.ntp.org and erase the rest of the NTP server entries.

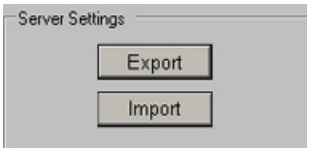
Click **OK** to save the settings or click **Defaults** to restore the original list of NTP servers.

To use a different NTP server, erase all existing entries and enter the new NTP server address in the **NTP Server List** window. Click **OK** to save the settings.

1.4.10.10. Export/Import Server Settings

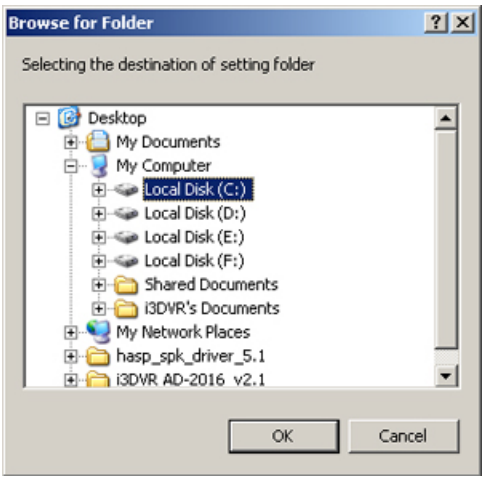
Important
This function is not supported by SRX-Pro Remote

All user settings can be exported to a folder of choice for future use. In case of multiple servers, the same settings (including a user passwords/privileges and other server configurations) can be easily applied by importing them from that folder. This function may be used to apply same set of settings to multiple SRX-Pro Server systems or to backup unique settings configurations in case of a system crash.



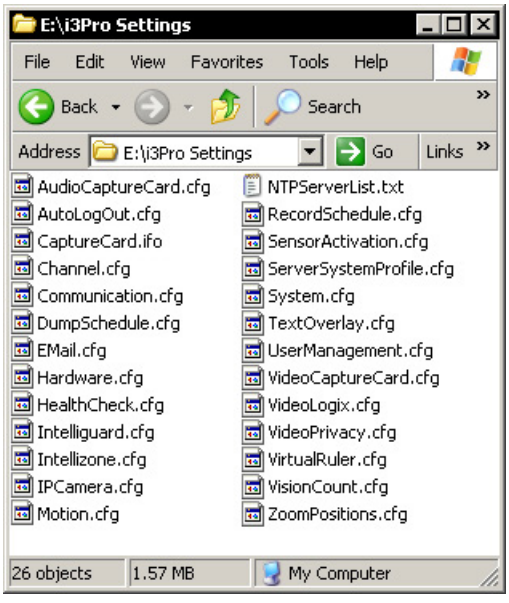
To export the system settings, do the following:

1. Click **Export**
2. In the **Browse for Folder** window, select the destination folder. Click **OK**.



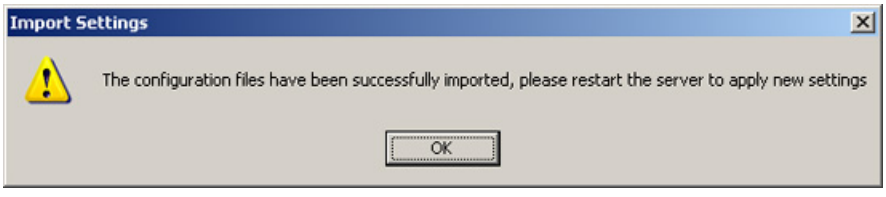
3. The **I3Pro Settings** folder will be created on the selected drive (inside the selected folder if applicable). The following configuration files will be saved inside **I3PRO Settings** folder.

Note
Configuration files may vary based on SPK.



To import the system settings, do the following:

1. Click **Import**
2. In the Browse for Folder window, locate and select **i3Pro Settings** folder. Click **OK**.
3. Wait for the Import Settings warning window and click **OK**



4. Access the Live mode and go **File -> Shutdown** to shutdown the SRX-Pro Server

5. Re-start the system and wait for the SRX-Pro Server to load. The imported settings will take effect after system restart.

1.4.11. Storage Setup

Important
Only the administrator user, i3dvr, can modify this setup tab.

ATTENTION: This function should be used by i³ Authorized Technicians ONLY! The Storage Setup option is used to choose the drive for recording video data. It may stop recording or continue to overwrite old data whenever there is no free space on the drive, depending on the option selected.

1.4.11.1. Understanding VMS storage structure

In order for the VMS to be able to record video data on a selected drive, the drives/partitions have to be structured in a certain way. After the initial allocation of the specific hard drive/partition, I3DVR_DATA folder is created. Video data is stored in files that have extensions *.dat and *.idx. These files act as a medium for the digital video recording. The size of each *.dat file is 64MB, which means each *.dat files contains 64MB worth of video recording. When video recording exceeds 64MB, new *.dat file is created. The video information is stored in the tree-structure of subfolders that correspond to the date of the recording: year, month, day.

For example, the subfolder **F:\I3DVR_DATA\2011\02\15** will contain video recordings from February 16, 2011

1.4.11.2. Overview

The Storage Setup displays the following:

Important
The settings in this Setup tab cannot be changed in any way through SRX-Pro Remote

Note
Drives C and D are protected from formatting/allocating and are not displayed on the list of drives.

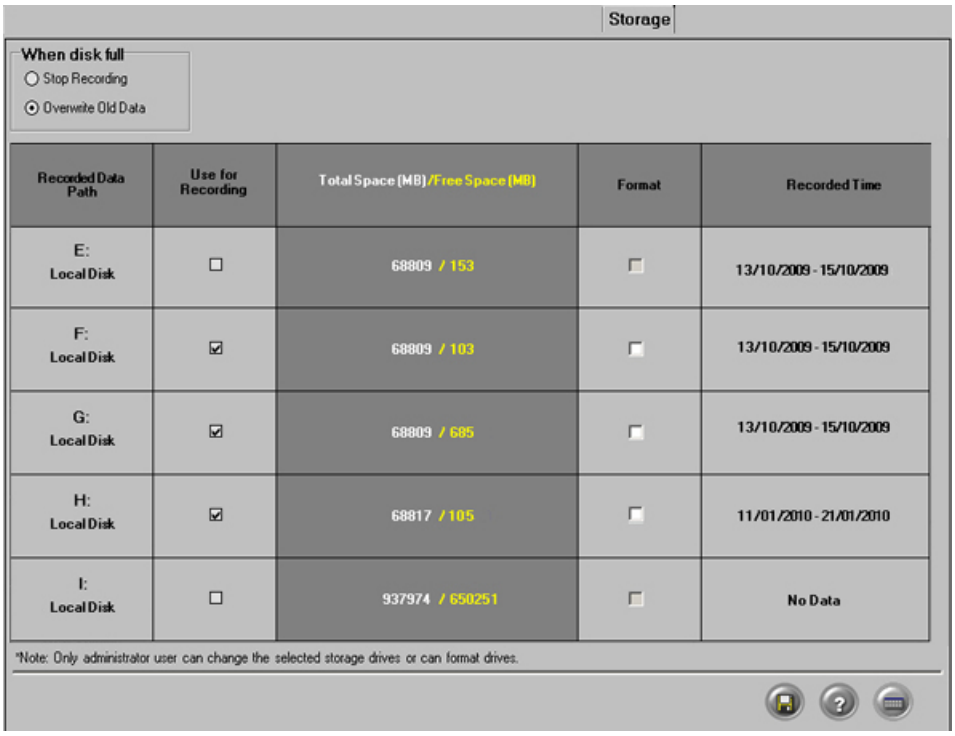
1. Recorded Data Path - displays the Drive name
2. Use for Recording - is used to select storage drives, where data is recorded. In the example below, drives F:\, G:\ and H:\ are used for video recording.
3. Total Space/Free Space - displays used and available space
4. Format - allows the user to select a drive to format
5. Recorded Time - displays the first and last time that data was recorded on a specific drive
6. When disk full - the user can decide the course of action when all local media is full: stop recording or overwrite old data

   Select **Stop Recording** to cease all video recording when the hard drives are full.

   WARNING: This can potentially result in the loss of valuable video information. Once the drives are full, the VMS will stop recording.

   Select **Overwrite Old Data** to write over the old data when the hard drives are full.

   WARNING: This can potentially result in the loss of valuable video information. Once the drives are full, the old video recordings will be overwritten. These video recordings will be lost and will not be restored. It is advisable to back up valuable video information onto a separate removable or a local drive that is not used for video recording.



1.4.11.3. Allocating New Drives For Recording / Formatting Hard Drives

Warning

Allocation and formatting processes will erase all existing information on the drive. Make sure to save all valuable information onto another drive before proceeding.

In order to increase storage, administrative user (i3dvr) can allocate new local hard drives for video recording or format existing drives to free space for new video recording.

To allocate a new drive for video recording or to format hard drive with video information, do the following:

1. Check off the corresponding checkbox in the **Use for Recording** column to allocate new drive

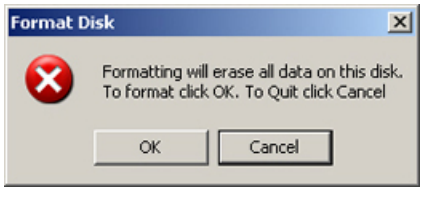
   OR

1. Check off the corresponding checkbox in the **Format** column to format existing hard drive.

Important

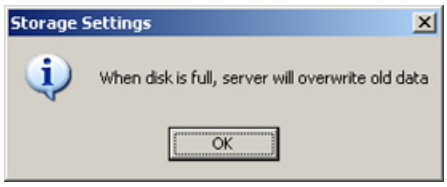
Drives C:\ and D:\ cannot be allocated/formatted.

2. Click **OK** in the **Format Disk** warning window to proceed or click **Cancel** to return to Storage Setup.

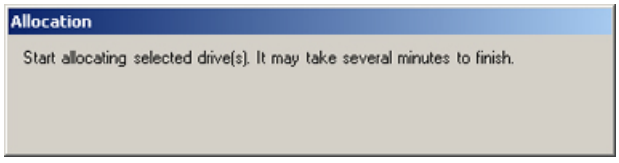


3. Click the **Save** button to proceed with hard drive allocation.

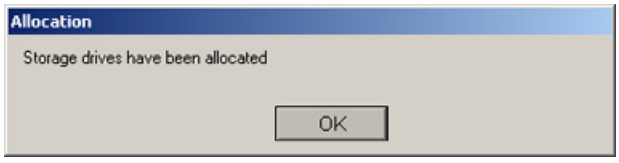
4. Depending on the **When disk full** setting, one of the following messages will appear. Click **OK** to proceed.



5. Wait for the following message to be displayed in the top left corner:



6. Wait for the following message to be displayed in the top left corner. Click **OK** to finish.



1.4.12. E-Map Setup

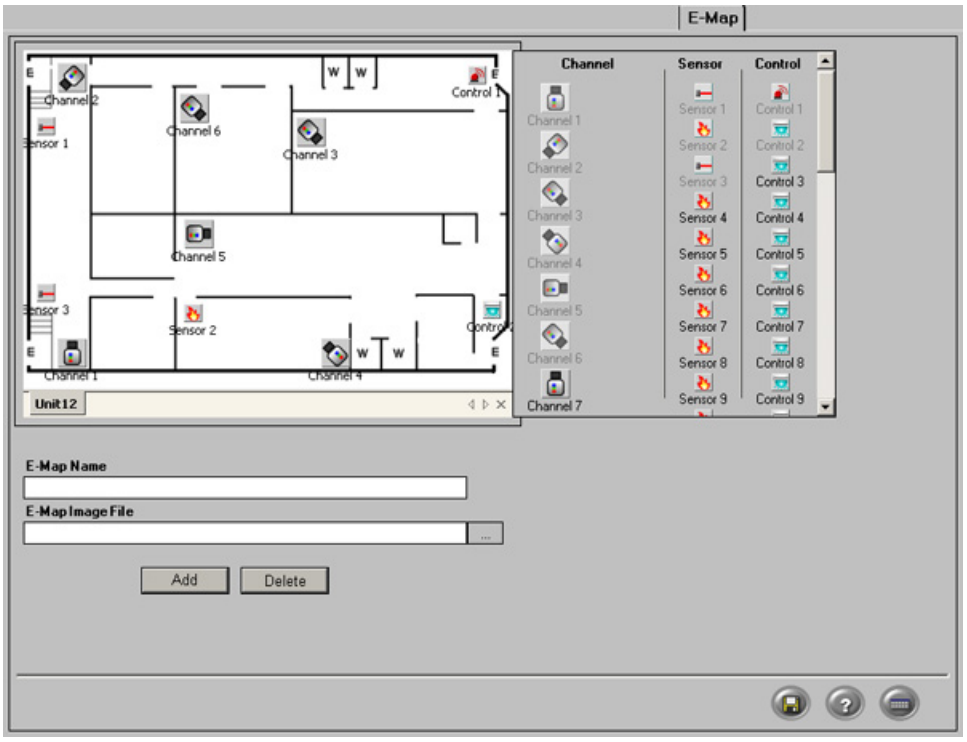
1.4.12.1. Overview

Important
This function is not supported by SRX-Pro Remote

Tip
Any one specific channel/control/sensor can only be used once

The E-Map function allows the users to lay out channels on a map for the quick launch of a specific channel. Positioning of the channels, controls and sensors is done on an existing digital drawing/map. The map appears on the main screen and allows quick access to the desired channel by simply clicking on its representative icon. Clicking on a channel's icon will display the image of that channel in full-screen mode.

Note that E-map does not allow manual activation of a control. However, if a control/sensor is triggered, it will be registered on the E-map: the icons representing the sensors/controls will be animated. E.g. If the control is activated, the control icon on the E-map will flash.



1.4.12.2. Configuring E-Map

To configure the E-Map, do the following:

1. Enter the *E-Map Name*. Use the keyboard or the virtual keyboard if necessary. In this example, the new E-Map name is "Unit12".

2. Click the **Browse** button in the **E-Map Image File** field to locate and select existing digital image of the perimeter map.

3. Click **Add** to copy the selected image to the drawing area. The Image will appear in the screen on the left side of the Setup window. The new E-Map name will be displayed on the tab directly underneath the drawing.

4. In the right side of the drawing area, choose the **Channel, Control or Sensor** to be positioned on the E-Map

   a. Click on the **Channel** icon to display all available camera icons. The first 16 icons represent possible camera angles. The last icon represents a speed dome camera.

   b. Drag and drop the desired channel icon onto the E-Map bitmap image in the drawing area. The channel icon will be added onto the image.

   c. Click on the **Sensor** icon to display all available sensor icons: . The icons represent Fire, Laser and Heat sensors respectively.

Note
Only channels enabled in the Hardware Setup are displayed.

Note
Only sensors enabled in the Hardware Setup are displayed.

Note
Only controls enabled in the Hardware Setup are displayed.

d. Drag and drop the desired sensor icon onto the E-Map bitmap image in the drawing area. The sensor icon will be added onto the image.

e. Click on the **Control** icon to display all available control icons: . The icons represent Light and Alarm controls respectively.

f. Drag and drop the desired control icon onto the E-Map bitmap image in the drawing area. The control icon will be added onto the image.

5. Click the **Save** button to save the configured settings

1.4.12.3. Delete the Channels/Controls/Sensors from an E-Map

To delete Channels/Controls/Sensors, do the following:

1. Click on the **Channel, Control, Sensor** icon in the E-Map image.
2. Drag and drop the channel, control or sensor icon from the image back to the list of channels, controls, sensors on the right. The icon will disappear from the image.

1.4.12.4. Delete the E-Map bitmap image

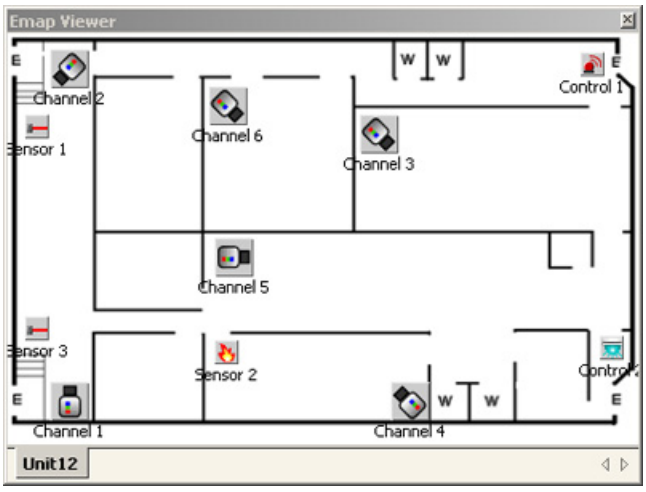
To delete/change the E-Map bitmap image, do the following:

1. Select the tab with the desired E-Map in the drawing area.
2. Click **Delete** or click the delete icon .
3. In the E-Map Deletion message, click **Yes** to delete or **No** to return to the E-Map setup.

1.4.12.5. E-Map on the Main Screen

To view the E-Map on Live Mode, click the **Live** button to go to the Main Screen. Click on **Tools -> E-Map Viewer** menu. The E-Map window will be displayed in the center of Main Screen as a separate window. E-Map Viewer window can be moved around the main screen as needed.

By clicking on any channel icon on the E-map, the corresponding channel will be brought to full-screen mode.



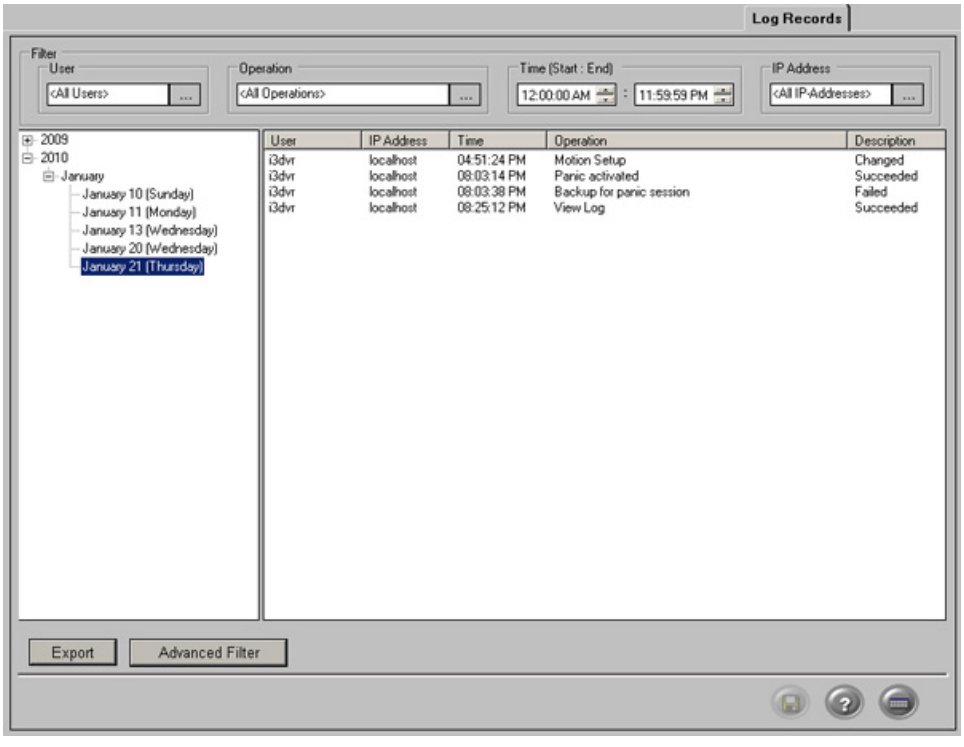
Related Topics: Main Screen | Hardware Setup-Sensor Settings | Hardware Setup-Control Settings

1.4.13. Log Records

1.4.13.1. Overview

Tip
All log activities are stored and organized according to date.

Once the user accounts are configured, the Manager can track user activity in the Log Records Setup. Video data can be erased from the VMS by administrator user, however the Log Records cannot be altered by any user. Log Records track the following activities: user login/logout activities, changes made to any of the setup tabs, sensor activation, sent E-mails, hard drive formatting, remote connections etc. The logs can be viewed in the Log Records setup tab or exported to a text file.



1.4.13.2. Exporting Log Records

To export specific log file, do the following:

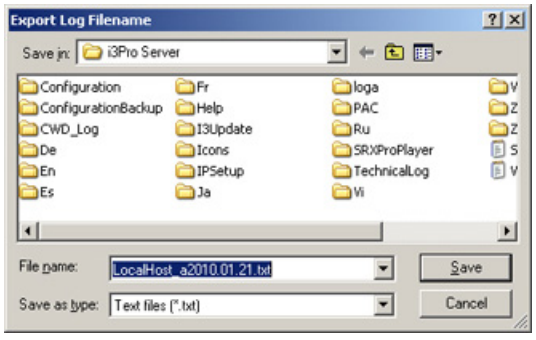
1. Click the plus sign (+) next to the desired year. The list of months with log records will be displayed.
2. Click the plus sign (+) next to the desired month to view all entries for that month
3. Select a particular day in the tree view list.
4. The activity log for the selected day will appear in the right-hand pane

   The word "**Changed**" in the **Description** column signifies changes made to the specific setup tab.

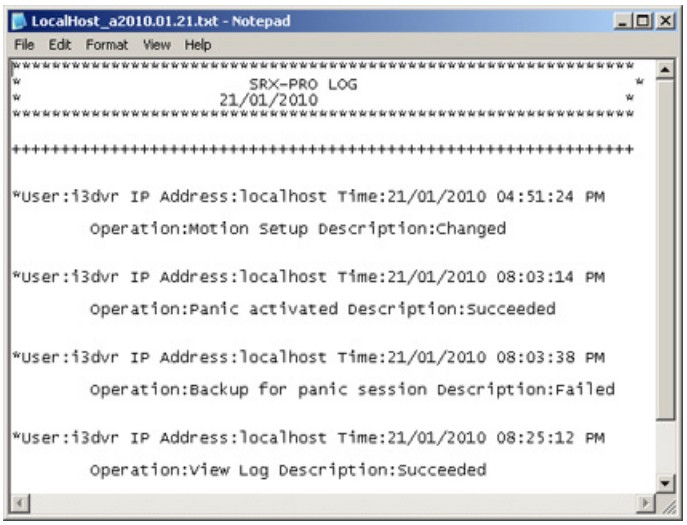
   The word "**Succeeded**" signifies successful completion of an operation (such as user login).

   The word "**Failed**" signified failed operation.

   The description will show "**Connection has failed**" when the system was unable to connect to the mail server.
5. Click **Export** to export the displayed log into a text file
6. Choose the destination folder to save the log information
7. Name the new text file or leave the default name.



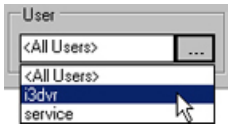
8. To view the log text file, locate the exported log file in the destination folder and double-click it. The log file will open in Notepad.



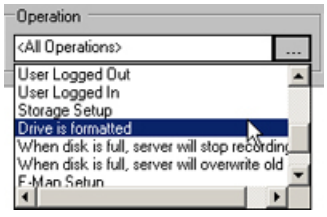
1.4.13.3. Configuring the Filter

To view and export filtered log files, you can filter the log info based on:

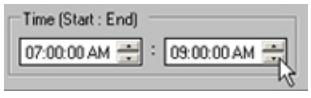
1. A **User**



2. An **Operation**



3. A period of **Time (Start : End)**

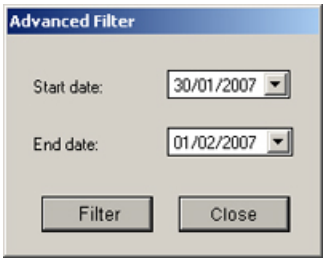


4. An **IP Address**

1.4.13.4. Advanced Filter

Advanced filtering based on date is available in the Log Records setup.

To display all log records for a period of time longer than 1 calendar day, click **Advanced Filter**.



In the Advanced Filter window, select the **Start date** and **End date** from the drop-down menus. In the example above, the log record for the period from January 30, 2007 to February 1, 2007 inclusive will be displayed.

Click **Filter** to display the log records for the configured time period.

1.4.14. Intelli-Guard™ Setup

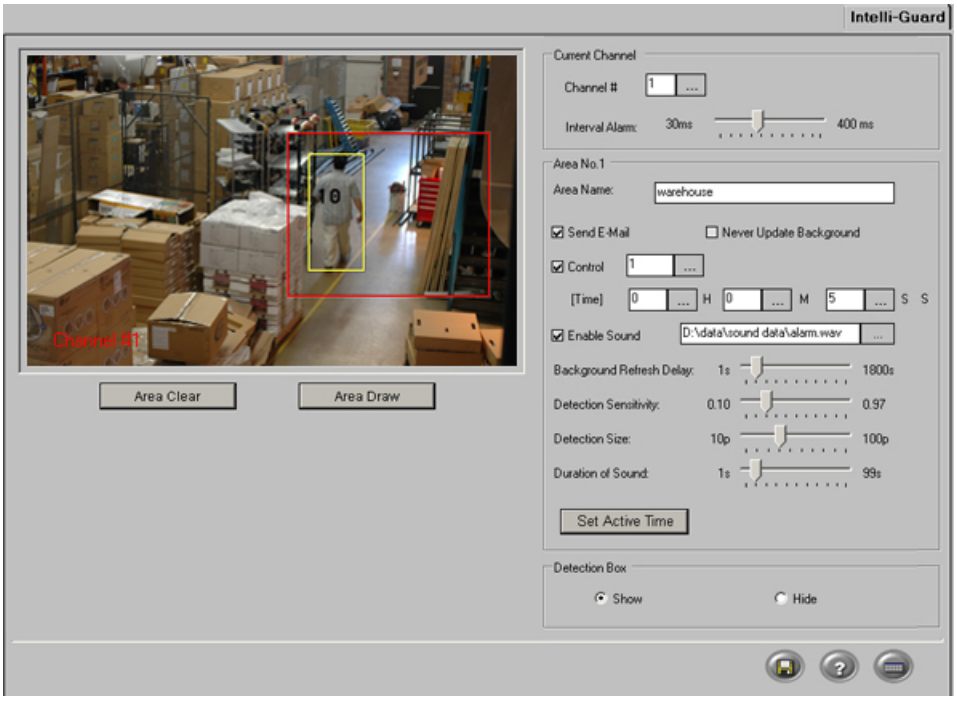
1.4.14.1. Overview

Important

Intelli-Guard™ uses the e-mail address configured in the Email Setup. For this option to work, the Email Setup tab must be properly configured.

Intelli-Guard™ is an intelligent feature offered exclusively by i³. The Intelli-Guard™ feature detects motion within a defined area of the channel's view and can respond with audio alarm or emergency e-mail. Intelli-Guard™ requires precise settings in order to work effectively.

Intelli-Guard™ detects change in an image by analyzing its pixels. The same principle is used by the Motion detection feature. However, Intelli-Guard™ can yield a more precise response than Motion detection, as it can be adjusted to different kinds of motion. For example, an object's size in the Intelli-Guard module can be used to limit detection to larger objects only. Motion detection, on the other hand, recognizes and registers any type of motion.



1.4.14.2. Suggestions for using Intelli-Guard™

1. Before setting a defining area, experiment with the specific location to test the parameter settings. Make sure that Intelli-Guard™ works as expected. Test both real alarm and false alarm situations. Adjust the settings to minimize / eliminate the number of possible false alarms.

2. It may be difficult to achieve good results if the image video contrast is low. Adjust the image brightness and contrast in the Video Setup tab to achieve better results.

3. Intelli-Guard™ is best used in an environment with little color variation. For instance, if the monitored object is placed on a one-color background, any change (e.g. an intruder) will be noticeable, therefore easily detectable.

1.4.14.3. Creating Intelli-Guard™ detection area(s)

Each detection area has its own configuration and has to be saved individually. Up to 5 detection areas can be configured. Each detection area can have its unique set of settings, including Active Time, custom alarm file, control, etc. To switch between detection areas, select the chosen detection area by clicking on the desired green box in the live view window. Selected detection area will be highlighted in red.

To create Intelli-Guard™ detection area, do the following:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button to select the desired channel from the list, selected channel will be displayed in the live view window.

2. Configure **Interval Alarm** by adjusting the slider. In the example above, Interval Alarm is set to 400ms. Interval Alarm is configured on per channel and not per area basis. Interval Alarm setting determines the time that passes between the motion occurrence and motion detection.

3. Create the detection area(s) in the live view window.

   a. Place the mouse cursor at the start point over the live view window

   b. Hold down the left mouse button and drag the cursor to draw the rectangular detection area

   c. Let the mouse button go

   d. Adjust or move the created detection area if necessary

4. Click **Area Draw** to set the entire channel screen for motion detection

5. Click **Area Clear** to reset all detection area on a selected channel

6. To delete a specific detection area, select the area by clicking on it, hold down the left mouse button and drag the area to remove it from the live view screen.

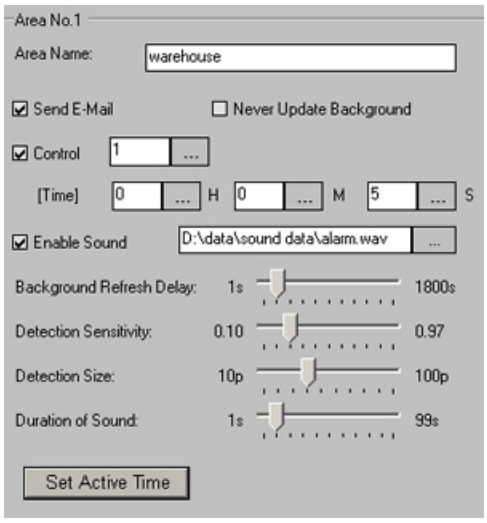
7. Click the **Save** button to save the configured settings

1.4.14.4. Configuring Intelli-Guard™ detection area(s):

To configure selected Intelli-Guard™ detection area, do the following:

1. Select desired detection area in the live view window. Settings for the selected detection zone will be displayed in the Area No. frame.

2. Enter a descriptive name for the selected detection area in the *Area Name:* field. In the example below, Area No. 1 is called "warehouse".



3. Check off **Send E-Mail** checkbox to have an emergency Email sent every time an alarm is triggered in this Area. The email address is taken from the Email Setup tab. Make sure to configure E-Mail setup tab.

4. Check off **Control** checkbox to activate selected control every time an alarm is triggered in this Area.

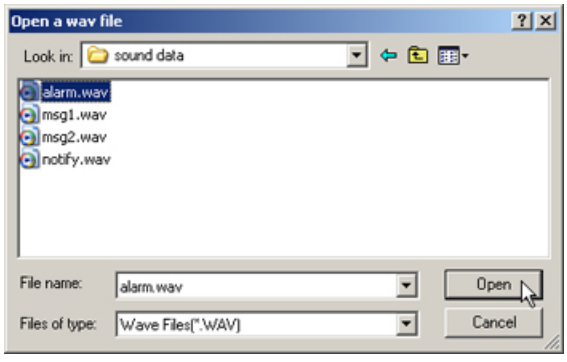
5. Click the **Browse** button ... to select the desired control from the list. Only controls activated in the Hardware Setup tab will be displayed.

6. Set the working **[Time]** for the selected control. After the control has been activated, it will remain on for the set period of time. In the example above, Control 1 will remain on for 5 seconds after the motion has been detected in the Area No. 1.

7. Check off **Enable Sound** checkbox to enable custom audio alarm for the selected area.

8. Click the **Browse** button ... to select the desired *.wav sound file from the hard drive.

9. Locate the *.wav sound file and click **Open**



10. Set **Duration of Sound** by adjusting the slider (1 sec - 99 sec) to determine how long the *.wav file will play.

11. Set **Background Refresh Delay** (1s - 1800s). If Intelli-Guard™ detects no changes in the monitored area, it will update the area picture according to the selected schedule. This will decrease the cumulative image difference caused

by normal occurrences, such as changing illumination across the period of a day. The background refresh delay can be set between 1 second and 1800 seconds (30 minutes). To disable background refresh feature, Check off **Never Update Background** checkbox.

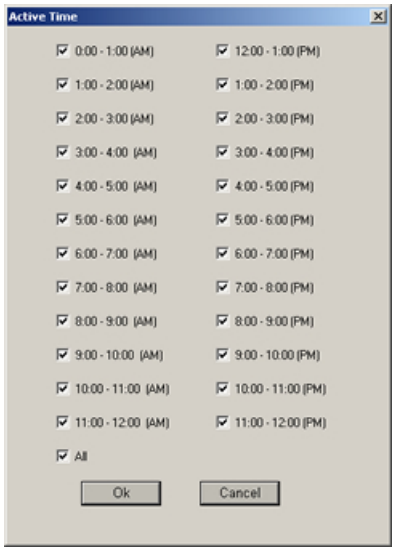
12. Configure **Detection Sensitivity** (10% - 97%). This parameter accounts for the change in image brightness. This percentage determines the acceptable level of brightness change. If the illumination is increased slowly and evenly, it is unlikely to cause an alarm. However, if the light switch is suddenly turned on in a dark room, the dramatic change in image brightness will set off the alarm.

13. Configure **Detection Size** (10p - 100p). This parameter determines the number of pixels representing 1 (one) "block". At least one block has to be detected by Intelli-Guard™ to trigger the alarm. The smaller the size of the block, the more "sensitive" Intelli-Guard™ will become and the smaller the size of the objects that will set off the alarm.

    For instance, assume that a bird occupies 10 pixels in a resolution of 720x480. If the Detection Size is set to 10 pixels, the bird will represent 1 block; therefore the alarm will be triggered. However, if the Detection Size is set to 20 pixels, the bird will no longer represent 1 block and will be omitted by the Intelli-Guard™. A larger Detection Size, thus, detects larger objects (e.g. people) and omits smaller ones. This setting is used to decrease the number of false alarms. After configuring this setting, it is important to run trials to ensure that the Detection size is reacting to objects of a desired size. On the screen, the area of a detected change will be indicated by, green outline with a number. The number indicates how many detection blocks make up the area.

    In the example above, motion was detected in an area, which is made up of 5 detection blocks. To have the number of detection blocks shown on the live view screen, select **Show** in Detection Box frame. To hide them, select **Hide**.

14. Click **Set Active Time** to configure active time for the selected area. Intelli-Guard will detect motion in the selected area ONLY during the Active Time. The following window will appear.



15. Check off desired active time(s) for the selected area. In the example above, the Intelli-Guard motion detection in Area No. 1 is active 24 hours a day.

Important
Active Time MUST be set, otherwise Intelli-Guard™ will not work for the selected detection area.

Click the **Save** button to save the configured settings

16. **IMPORTANT:** Ensure there is NO MOTION occurring in the defined area when clicking the **Save** button, otherwise the Intelli-Guard™ function will not work properly for that area. This is due to that fact that Intelli-Guard™ detects changes in the pixels that make up an image as opposed to detecting actual motion. When the **Save** button is clicked, Intelli-Guard™ registers the current image as the default image. All consequent changes to that area will be registered. If motion occurs in the defined area when the **Save** button is clicked, even the static environment will set off the alarm.

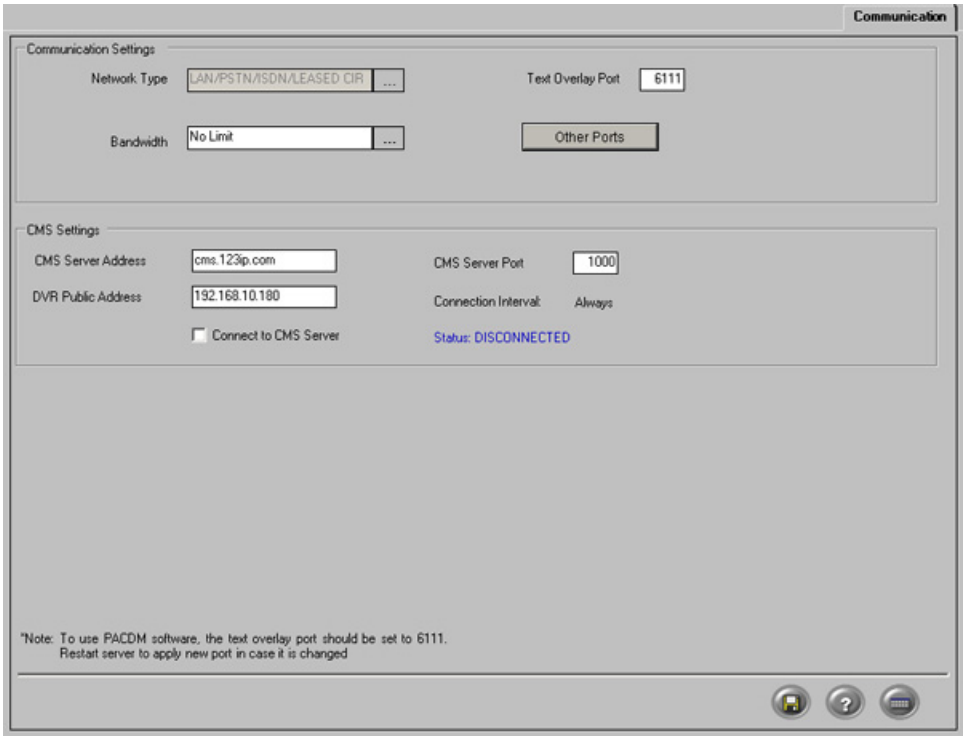
Related Topics: Hardware Setup-Control Settings | Email Setup

1.4.15. Communication Setup

1.4.15.1. Overview

Communication Setup contains the network type, bandwidth setting, Text Overlay port and Other Ports.

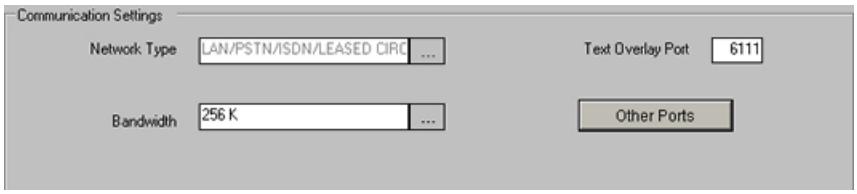
The network type is displayed based on Windows O/S settings and cannot be changed by the user. The Text Overlay port value should not be changed for the PACDM software to function properly.



1.4.15.2. Configuring Communication Setup

To configure Communication Setup, do the following:

1. Configure **Bandwidth**. This menu controls the bandwidth of the data transferred over the network. Choose **No Limit** to use all the available connection speed to transfer data. If **No Limit** is chosen, the Server might be slowed down in cases where multiple users are dialing into the system at the same time.



2. Enter *Text Overlay Port* number. The default port number is **6111** for text overlay via TCP/IP. Enter **5111** to display text through the COM port. The user must restart the server to apply changes to Text Overlay Port.

Important
The ports cannot be changed via SRX-Pro Remote.

3. Click **Other Ports** to display all ports used in the SRX-Pro server application. It is recommended to keep the default port numbers, especially the Main Control Port, which is required to be the same in both remote and server for remote connection to be possible. Unless a port designated as a default is required for another application, do not to change the port numbers.

Important
The ports cannot be changed via SRX-Pro Remote.

Port default settings:

Text Overlay Port: 6111

Main Control Port: 17721

Search – Live Port: 17772

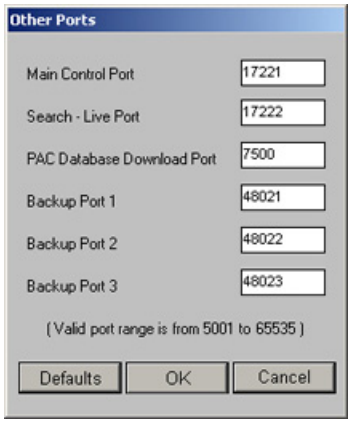
PAC Database Download Port: 7500

Backup Port 1: 48021

Backup Port 2: 48022

Backup Port 3: 48023

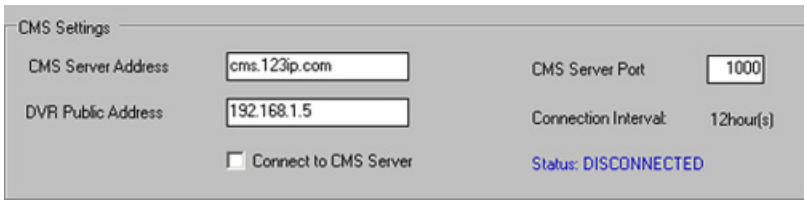
The available port range: 5001-65535



1.4.15.3. Configuring CMS Settings

To configure CMS settings, do the following:

1. Enter your CMS Server's Address. This field is pre-filled with the address of i³'s CMS Server. To connect to a different CMS server, enter your proprietary CMS Server's Address.



2. Enter your **DVR's Public Address**. To use internal IP address, your CMS Server must be located on the same network as your DVR. If connecting to i³'s CMS Server, your DVR must have a public IP Address.

3. Enter **CMS Server Port**, default Port is 1000.

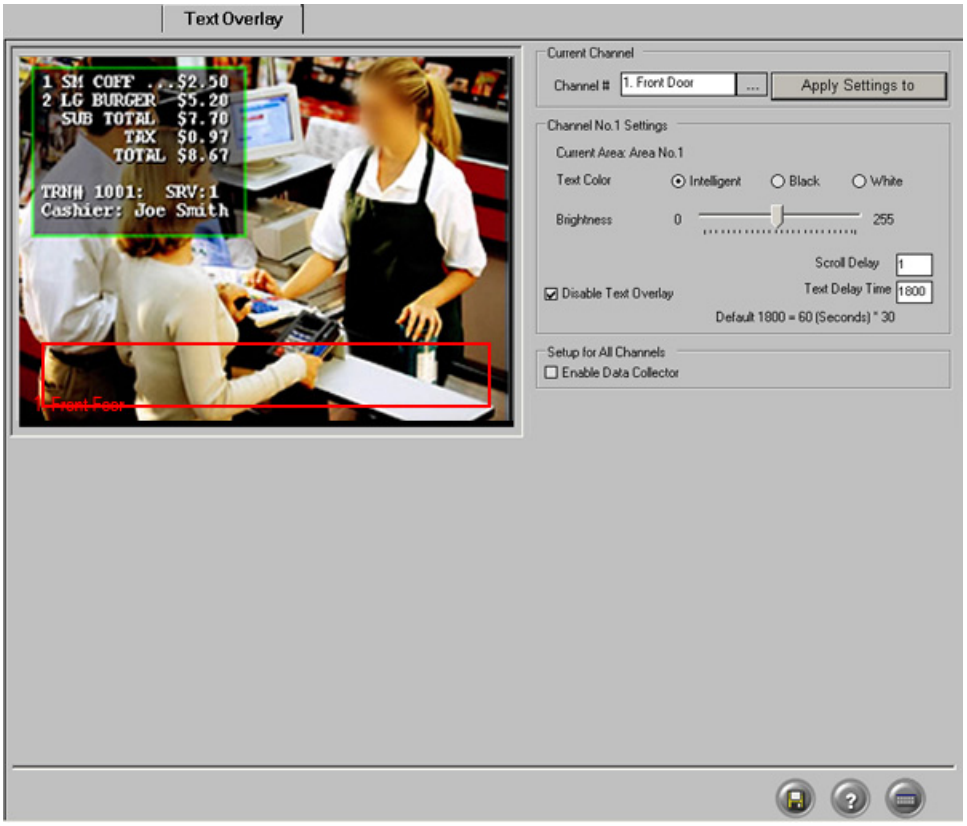
4. Check off **Connect to CMS Server** checkbox to connect to the configured CMS Server. If this section has been correctly configured, the Status will change from "DISCONNECTED" to "CONNECTED".

1.4.16. Text Overlay Setup

1.4.16.1. Overview

The SRX-Pro Server can be configured to display and capture current PACDM™ activity on any channel configured for PACDM™support.

Depending on the SPK key programming, Text Overlay can be activated on a number of video channels. If the SPK key has not been programmed to support text overlay, the user will be unable to activate any channel for Text Overlay.



1.4.16.2. Setting up Text Overlay

To set up Text Overlay on a channel, follow these steps:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button to select the desired channel from the list, selected channel will be displayed in the live view window. Text overlay will be displayed on the selected channel.

2. On the video window you will see two pre-drawn rectangular boxes: green on top and red on the bottom. Click on each box to re-size it and to configure text color/scroll delay and text delay individually for each box. Go to PACDM application to configure whether box boxes will receive data or just box 1.

3. Select **Black** or **White** for the text color. Selecting **Intelligent** will set the text color to the opposite color of the background. If the background is dark the text color would be white. If the background is bright the text color would be black.

4. In **Intelligent** mode, adjust the **Brightness** according to the desired background sensitivity

5. Enter the **Scroll Delay** to determine the number of frames delayed when text scrolls up

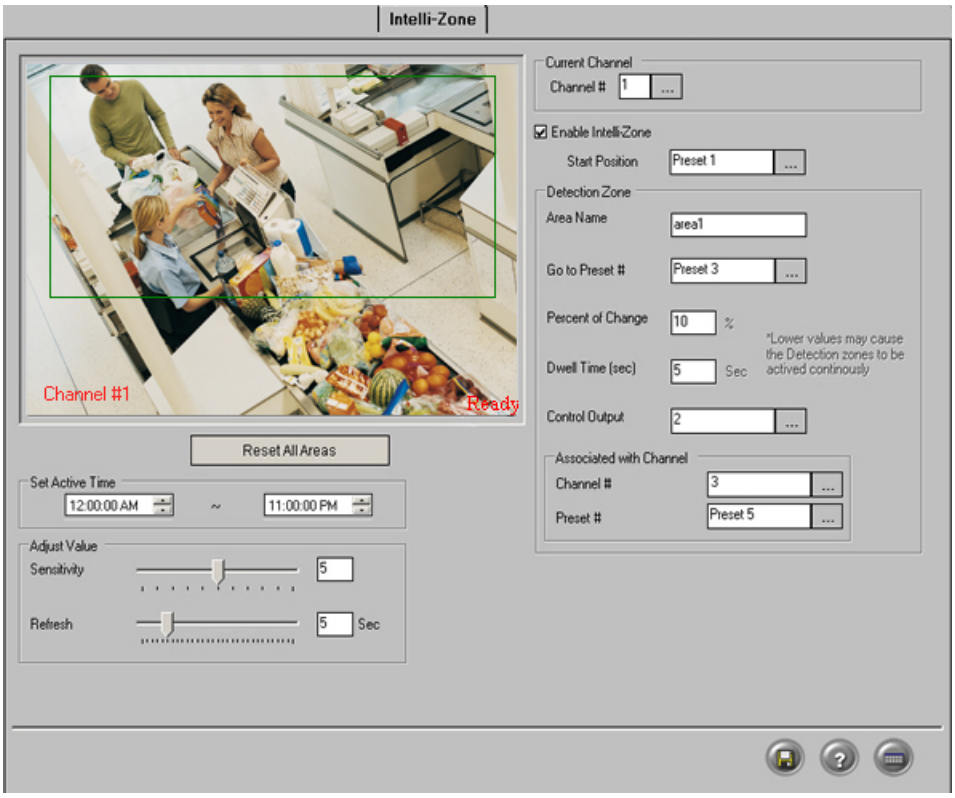
6. Enter the **Text Delay Time.** If there is no text input for a long time, the text will disappear automatically.

7. Go to the Virtual Ruler setup tab, check off **Show Text Overlay/Virtual Ruler in Mux Display on the Server** to show text overlay in the live view window.

1.4.17. Intelli-Zone™ Setup

1.4.17.1. Overview

Intelli-Zone™ is another exclusive intelligent feature offered by i³. Intelli-Zone™ is a feature that allows the channel to intelligently pan, tilt, or zoom to a specified preset. The SRX-Pro Server will automatically detect if that channel has P/T/Z features and adjust the pan-, tilt-, or zoom- settings where applicable.



To configure selected channel for Intelli-Zone, do the following:

1. Select the **Channel #** in the Current Channel frame. Click the **Browse** button ... to select the desired channel from the list, selected channel will be displayed in the live view window.
2. Check off **Enable Intelli-Zone** checkbox to enable Intelli-Zone module for the selected channel
3. Select **Start Position** preset. This is the position the channel will return to after the specified dwell time. Click the **Browse** button ... to select the desired preset from the list. (See Programming Presets section for more information).
4. **Set Active Time** to configure Intelli-Zone™ active time on the selected channel. Intelli-Zone™ will not work outside of the Set Active Time. In the example above, Intelli-Zone™ will work from 12:00 AM to 11:00 PM on Channel #1.
5. Adjust **Sensitivity**. The higher the Sensitivity, the less change in an image is needed to set off the alarm. If the Sensitivity is set to Low, the change in an image will have to be dramatic to be detected as motion. This function only works properly indoors. The natural changes an outdoor environment (e.g. clouds) can cause false alarms.
6. Set **Refresh** time. Refreshing an image more often will decrease the cumulative image difference caused by normal occurrences, such as changing illumination across the period of a day and will reduce the number of false alarms.

Note
Active Time will remain the same for all detection areas on the selected channel.

Note
Sensitivity will remain the same for all detection areas on the selected channel.

Note
Refresh time will remain the same for all detection areas on the selected channel.

1.4.17.2. Creating Intelli-Zone™ detection area(s)

To create Intelli-Zone™ detection area(s), do the following:

1. Place the cursor over the start point on the live view window
2. Hold the left mouse button down and drag to create a rectangular area
3. Let the mouse button go
4. Move/adjust the area if necessary. To delete a target area, click the area to select it, hold the left mouse button down and drag the detection area off from the live view window. To erase all created areas, click **Reset All Area.**

1.4.17.3. Configuring Intelli-Zone™ detection area(s)

Each detection area has its own configuration and has to be saved individually. Up to 10 detection areas can be configured. Each detection area can have its unique set of settings, including Area Name, Go to Preset #, Percent of Change, Dwell Time, Control output, and Associated Channel. To switch between detection areas, select the chosen detection area by clicking on the desired green box in the live view window. Selected detection area will be highlighted in red.

1. Select the specific detection area by clicking it in the live view window. Selected detection area is highlighted in red.
2. Enter **Area Name** for the created target zone in the **Detection Zone** frame. In the example above, the detection area has been labeled "area1".
3. Select **Go to Preset #**. This is the position the PTZ camera will move to after the motion has been detected in the selected detection area. Click the **Browse** button ... to select the desired preset from the list. All presets are configured in the Advanced Control tab of the SRX-Pro Control Center. (See Programming Presets section for more information). In the example above, Channel #1 will move to Preset 3 when motion is detected on area1.
4. Set the **Percent of Change** between 1% and 99%. This value determines the amount of change that has to occur in the image in order to be recognized. In the example above, the image change has to be at least 10% in order to be recognized by Intelli-Zone.

Caution
Lower values may cause false alarms.

5. Enter the **Dwell Time (sec)** (5-99 seconds). Dwell Time defines the number of seconds the selected channel will remain in the Go to Preset position before returning to the Start Position. This Dwell Time also applies to the Control output. In the example above, Channel #1 will remain in Preset 3 for 5 seconds before returning to Preset 1. Control Output will remain active for 5 seconds after the motion has been detected on area1.
6. Assign the **Control Output** that will be triggered after the motion has been detected in the selected detection area. Click the **Browse** button ... to select the desired control from the list. Only controls activated in the Hardware Setup tab will be displayed. In the example above, Control 2 will be activated after the motion has been detected in area1.
7. If desired, associate selected detection area with another channel:
   a. In the Associated with Channel frame, click the **Browse** button ... in the **Channel #** field to select the desired channel from the list. Only channels activated in the Hardware Setup tab will be displayed.
   b. Click the **Browse** button ... in the **Preset #** field to select the desired preset from the list. (See Programming Presets section for more information).

      Associated channel will assume this position when motion is detected by Intelli-Zone in the selected detection area.

In the example above, Channel 3 will assume Preset 5 if the motion has been detected in the area1 on Channel #1.

8. Click the **Save** button to save the configured settings

IMPORTANT: Ensure there is NO MOTION occurring in the defined area when clicking the **Save** button, otherwise the Intelli-Zone™ function will not work properly for that area. This is due to that fact that Intelli-Zone™ detects changes in the pixels that make up an image as opposed to detecting actual motion. When the **Save** button is clicked, Intelli-Zone™ registers the current image as the default image. All consequent changes to that area will be registered. If motion occurs in the defined area when the **Save** button is clicked, even the static environment will set off the alarm.

Related Topics: PTZ mode | Hardware Setup-Control Settings | Motion Setup

1.4.18. VideoLogix™

1.4.18.1. Overview

Note
The availability of this feature is SPK-dependent.

Caution
VideoLogix and VisionCount technologies are mutually exclusive. Only one technology can be used on any given camera.

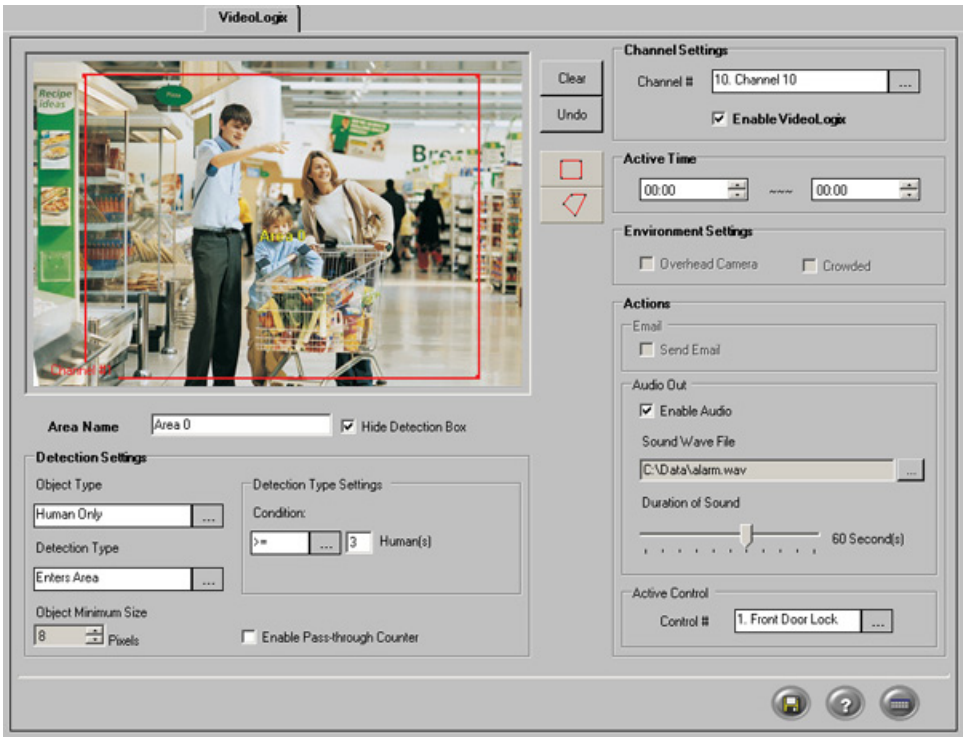
VideoLogix™ is an intelligent human(vehicle) tracking / theft detection module developed exclusively by i³. This module allows:

1. Detecting Human Presence
2. Detecting a Vehicle
3. Detecting a Missing Object
4. Analyzing Human/Vehicle behavior
5. Initializing pre-selected response depending on the nature of the behavior

Important
The FPS rate for VideoLogix video channels will be adjusted to maximum allowed value of 13 FPS.

The total number of available VideoLogix™ channels will depend on the VMS model. Please contact customer care if more VideoLogix channels are desired.

The VideoLogix™ tracking module is a versatile device that allows for seven different types of human/object detection and tracking: Area, Crossed Line™, Idle, Missing, Stop, Direction, Passthrough Counter™.



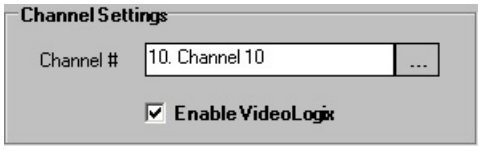
1.4.18.2. Configuring VideoLogix™

Note

Each VideoLogix™ channel must be configured separately.

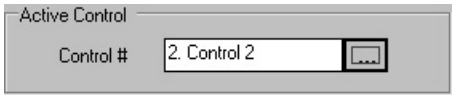
To configure the common channel settings, do the following:

1. In the *Current Channel* field, click the **Browse** button ... to select the desired analog video channel. Note that VideoLogix cannot be configured on IP channels.



2. Check off the **Enable VideoLogix** checkbox to enable the VideoLogix™ module for the selected channel. In the example above, VideoLogix™ is configured for Channel 1. Note that the maximum frame-per-second rate on the channels configured for VideoLogix™ is 13 FPS. When the channel is configured for VideoLogix, the frame rate is automatically adjusted to 13 FPS.

3. Choose the **Control #** in the drop-down menu for the selected VideoLogix™ channel. When the alarm is triggered on the selected VideoLogix™ channel, the configured control will be activated. In the example above, Control 1 will turn on when the VideoLogix™ alarm is triggered on video Channel 1.



4. Set **Object Min Size**. This pixel value is the minimum pixel heigh that the human form has to represent on the live-view screen in order to be detected by VideoLogix™. By default, this value is set to the absolute minimum value of 8 pixels. Any objects smaller than the selected object minimum size will not be recognized.

5. If necessary, configure the environment for the selected channel. Check off **Overhead Camera** checkbox if the selected camera is facing downwards. Check off **Crowded** checkbox if the selected camera is mounted in a crowded location. Please note that only *one* of these two checkbox can be selected at any given time.

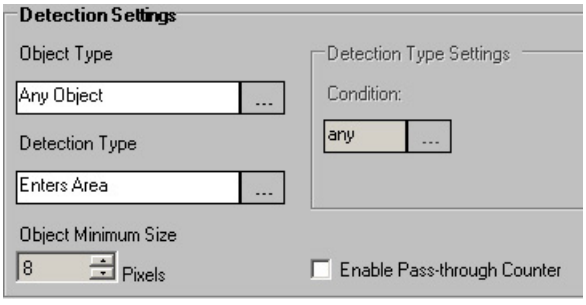
Note

The environment limitations, such as restricted camera view due to the mounting location or the crowded site will restrain VideoLogix™ functionality. If Overhead Camera is checked off, only Any Object - Missing from Area and Pass-through Counter alarm options will be available. If Crowded is checked off, only Any Object - Moves in Direction alarm option will be available.

6. Check off the **Hide Detection Box** checkbox in order to hide the detection box on the main screen.

After configuring the common channel settings, choose and configure the desired type of human/object detection.

1.4.18.3. Configuring Detection Settings



To configure the Detection Settings, do the following:

1. Choose the **Object Type** between **Human Only**, **Vehicle Only**, **Human or Vehicle** or **Any Object**.
2. Choose the **Detection Type** type from seven possible choices:
   a. *Enters Area* (not available when **Overhead Camera** or **Crowded** options are checked off)
   b. **Crossed Line** (not available when **Overhead Camera** or **Crowded** options are checked off)
   c. **Idles in Area** (not available when **Overhead Camera** or **Crowded** options are checked off)
   d. **Missing from Area** (available only for **All Objects** object type. Not available when **Crowded** option is checked off)
   e. **Stopped in Area** (not available when **All Objects** object type is selected. Not available when **Overhead Camera** or **Crowded** options are checked off)
   f. **Moves in Direction** (not available when **Overhead Camera** option is checked off)

g. **Enable Pass-through Counter** (not available when **Crowded** option is checked off)

1.4.18.4. Configuring Enters Area Detection Type

Caution

Due to the background registration technique, the persons, who remain in the same position without moving for an extended period of time, will not be detected.

The Area alarm detects the human / vehicle / object presence in the defined area and initiates an alarm.

Please note that the Area alarm option will not be available for the overhead-mounted cameras and in the crowded locations.

To configure Area alarm, do the following:

1. Choose **Enters Area** in the **Detection Type** menu.
2. Choose rectangular or polygon drawing tool
3. Draw the detection zone in the live view screen. A total of three Area alarm detection zones can be drawn – rectangular, polygon or both.

   a. **For rectangular area:** Click on the live view screen to define the area starting point, hold down the left mouse button and drag to draw a rectangular area.

   b. **For polygon area:** Click on the live view screen to define each vertex of the polygon. Click on the first point defined to complete the polygon.

   c. To adjust the detection zone position on the screen, click on the desired detection zone, hold the left mouse button down and drag the selected zone to the desired position.

      To delete the last detection zone, click **Undo**. To delete all detection zones for the selected camera, click **Clear**.

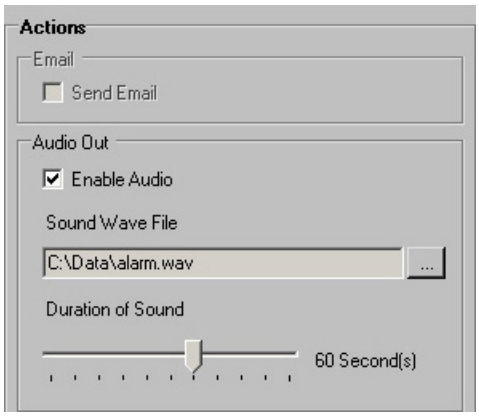
   d. Name the detection zone in the **Area** field if required. Enter the desired name in the text field under the live view window.

4. Set the **Active Time** for each detection zone. In the example below, the Area alarm is active from 8:00AM to 5:30PM.

Important

Active Time must be configured. Unless the Active Time is set, object detection will not occur in the selected area. By default, the Active Time is set to always active.

5. Configure the **Actions** for the selected detection zone



a. Check off the **Send Email** checkbox to send an emergency Email every time that the alarm is triggered in this detection zone. The email address must be first configured in the Email Setup tab.

b. Check off the **Enable Audio** checkbox to play the audio file on the VMS every time that the alarm is triggered in the Area.

Note
If the Enable Audio checkbox is checked off, the chosen *.wav file will be played locally on the VMS.

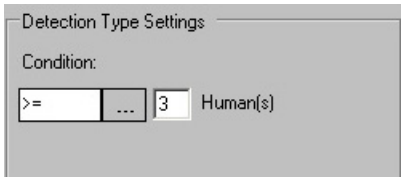
c. Select the **Sound Wave File** for the audio alarm

   i. Click the **Browse** button ... and locate the *.wav sound file that will play every time that the alarm is triggered

   ii. Click **Open**

d. Set the **Duration of Sound** (1 – 100 sec) to determine how long the *.wav file will play

6. Configure the **Detection Type Setting** for the selected detection zone by selecting one of the following conditions:



a. In the *Condition* drop-down menu, choose **any** to trigger an alarm every time human/vehicle/object presence is detected in the defined area.

b. In the *Condition* drop-down menu, choose "=" (equal to) in the drop-down menu and enter the desired number of persons/vehicles/objects. This way the alarm will be triggered only if the specified number of persons/vehicles/objects is met in the defined area.

c. In the *Condition* drop-down menu, choose "> =" (greater or equal to) in the drop-down menu and enter the desired number of persons/vehicles/objects. This way the alarm will be triggered only if the specified number of persons/vehicles/objects is met or exceeded in the defined area.

Caution

Due to the background registration technique, the persons, who remain in the same position without moving for an extended period of time, will not be detected.

1.4.18.5. Configuring Crossed Line alarm

The Crossed Line alarm detects any human/vehicle/object that crosses the specified boundaries in a predetermined direction and initiates an alarm.

Please note that the Crossed Line alarm option will not be available for the overhead-mounted cameras and in the crowded locations.

To configure Crossed Line alarm, do the following:

1. Choose **Crossed Line** in the **Alarm** menu
2. Choose the CrossWire drawing tool
3. Draw the detection zone in the live-view window. A total of three CrossWire detection alarm zones can be drawn.
   a. Click on the live view screen to define the starting point
   b. Hold down the left mouse button and drag the cursor to set the end point. The arrow in the middle should point in the desired location
   c. To adjust the detection zone position on the screen, click on the desired detection zone, hold the left mouse button down and drag the selected zone to the desired position
   d. To adjust the detection zone, click on start/end point, hold down the left mouse button and drag in desired location to expand/shrink or change the direction of the Crossed Line detection zone.

      To delete the last detection zone, click **Undo**. To delete all detection zones for the selected camera, click **Clear**.
   e. Name the detection zone in the **Area** field if desired
4. Repeat steps **4**-**6** of the Enters Area alarm setup

1.4.18.6. Configuring Idles in Area alarm

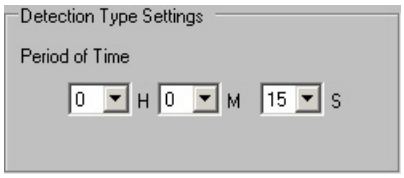
The Idle alarm detects a human/vehicle/object and initiates an alarm if the detected object remains in the defined area for a period of time longer than that defined by user.

Please note that the Idle alarm option will not be available for the overhead-mounted cameras and in the crowded locations.

To configure Idle alarm, do the following:

1. Choose **Idles in Area** in the **Detection Settings** menu
2. Repeat steps **2**-**6** of the Area alarm setup
3. Configure the **Detection Type Settings** for the selected detection zone. Set the **Period of Time**, in hours, minutes and seconds that an object is allowed to remain in the defined area. Once the person/vehicle/object stay has exceeded the allowed period of time, the alarm will be triggered.

   In the example below, the alarm will be triggered if the person remains in the defined area for 15 or more seconds.



1.4.18.7. Configuring Missing from Area alarm

Important
All Objects must be chosen in the Object Type menu in order to activate Missing alarm type.

The Missing alarm tracks any selected object and initiates an alarm if the object has been removed/moved from its original position. Available only with All Objects object type.

Please note that the Missing alarm option will not be available in the crowded locations.

To configure Missing alarm, do the following:

1. Choose **Missing** in the **Alarm** menu
2. Repeat steps **2**-**6** of the Area alarm setup
3. Configure the **Missing Alarm Setting** for the selected detection zone. Set the **Area Change Percent** (0% - 100%). The higher the number, the more profound the change in the defined area has to be in order to set off the alarm. To detect the item being moved slightly from its original position, the **Area Change Percent** number should be set to a lower value.

1.4.18.8. Configuring Stop alarm

Important
Human or Vehicle must be chosen in the Object Type menu in order to activate Missing alarm type. Stop alarm will not work with All Objects object type.

The Stop alarm detects a human/vehicle and initiates an alarm if the detected human/vehicle stops in the defined area for a period of time longer than that defined by user.

Please note that the Stop alarm option will not be available for the overhead-mounted cameras and in the crowded locations.

To configure Stop alarm, do the following:

1. Choose **Stop** in the **Alarm** menu
2. Repeat steps **2**-**6** of the Area alarm setup
3. Configure the **Stop Alarm Setting** for the selected detection zone. Set the **Period of Time**, in hours, minutes and seconds that a human/vehicle is allowed to stop for in the defined area. Once the person/vehicle stops in the defined area for the period of time longer than defined by user, the alarm will be triggered.

   In the example below, the alarm will be triggered if the human/vehicle stops in the defined area for 15 or more seconds.

1.4.18.9. Configuring Direction alarm

Caution
Due to the background registration technique, the persons, who remain in the same position without moving for an extended period of time, will not be detected.

The Direction Alarm detects any human/vehicle/object that moves in a predetermined direction and initiates an alarm.

Please note that the Direction alarm option will not be available for the overhead-mounted cameras.

To configure Direction alarm, do the following:

1. Choose **Direction** in the **Alarm** menu
2. Choose the Direction drawing tool
3. Draw the detection zone in the live-view window
   a. Left-click on the live view screen to define the starting point
   b. Hold down the left mouse button and drag the cursor to set the end point. The arrow should point in the desired direction.
   c. To adjust the detection zone position on the screen, hold the left mouse button down and drag the selected zone to the desired position.
   d. To adjust the detection zone, click on start/end point, hold down the left mouse button and drag in the desired direction to expand/shrink or change the direction of the Crossed Line detection zone

      To delete the last detection zone, click **Undo**. To delete all detection zones for the selected camera, click **Clear**.
   e. Name the detection zone in the **Area** field if desired
4. Repeat steps **2**-**6** of the Area alarm setup

1.4.18.10. Configuring Passthrough Counter

Caution
Due to the background registration technique, the persons, who remain in the same position without moving for an extended period of time, will not be detected.

The Passthrough Counter detects any human/vehicle/object that is moving in a defined direction, counts this motion and stores it in the Access database.

Please note that the Passthrough Counter option will not be available in the crowded locations.

To configure Passthrough Counter, do the following:

1. Choose **Passthrough Counter** in the **Counting** menu
2. Repeat steps **2**-**3** of the Direction alarm setup

   OR

   Repeat steps **2**-**3** of the Crossed Line alarm setup
3. Repeat step **4** of the Area alarm setup

1.4.18.11. VideoLogix on the Main Screen

The Main Screen displays all configured VideoLogix™ detection zones along with the assigned names. Once the alarm is triggered in one of the specified zones, the word "Alarm" is displayed on the screen.

1.4.19. VisionCount Setup

1.4.19.1. Overview

Note

The availability of this feature is SPK-dependent.

Caution

VideoLogix and VisionCount technologies are mutually exclusive. Only one technology can be used on any given camera.

VisionCount™ module allows monitoring the transactions at the cash registry and/or drive through. VisionCount module can:

1. detect valid transactions occurring on a drive through based on the presence of a vehicle and monetary exchange with the cashier
2. detect valid transactions occurring on a registry based on the presence of customer and cashier and monetary exchange
3. count the number of all valid transactions per day on registry and/or drivethrough
4. count the number of valid transactions per day on registry and/or drivethrough that exceeded set time period

When properly configured, VisionCount can be extremely beneficial to managers/loss prevention officers. VisionCount should be set up only once by a qualified dealer/technician according to the client's needs. For detailed instructions on how to configure VisionCount module, contact your integrator.

Software Specifications:

1. VisionCount module differentiates between valid and false transactions based on whether exchange took place between cashier and customer. I.e. If a customer ends up leaving without paying/receiving item(s), the transaction is discounted
2. A transaction time counter shows how long each current transaction takes to complete. At the end of transaction, the timer is reset.
3. A transaction counter shows how many valid transactions took place since midnight. At midnight, transaction counters are reset.

1.4.19.2. Configuring DriveThrough

Caution
PACDM™ text overlay is not allowed on video channels configured for VisionCount.

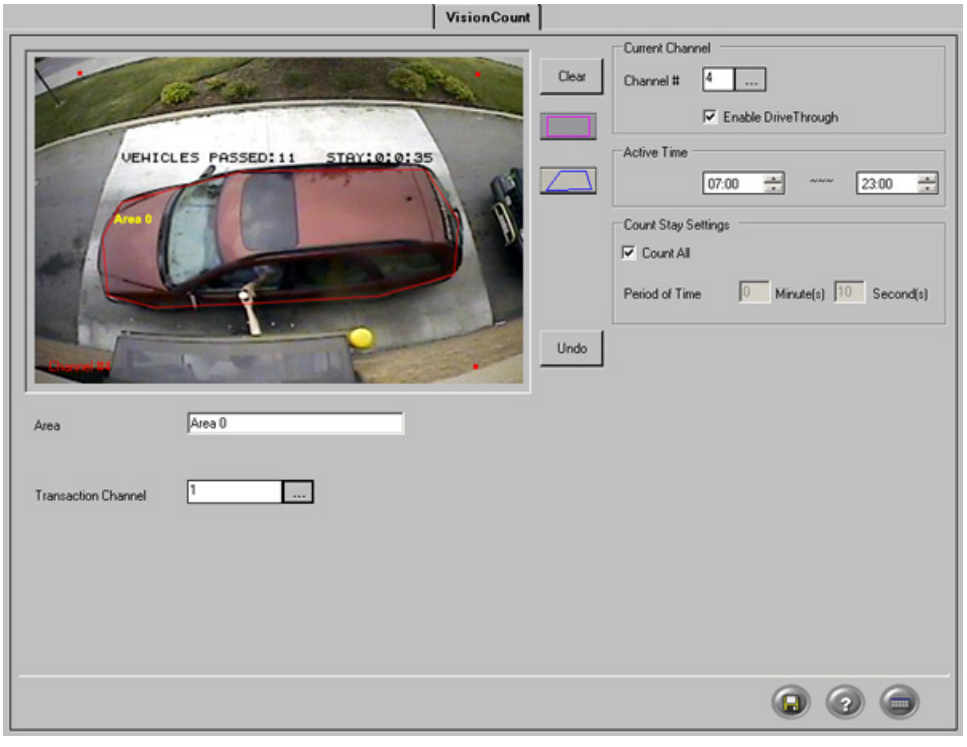
Important
The maximum frame-per-second rate on the cameras configured for VisionCount™ is 13 FPS.

Caution
The PTZ functions are not supported for the VisionCount channel.

Before using the DriveThrough Counter, make sure the following conditions for camera installation are met:

(See example below to better understand these requirements)

1. The camera must be mounted above the drivethrough window at a slight angle
2. The camera's field of view must be parallel to the drivethrough window and the road. I.e. The image should not be on a slant.
3. Entire area covered by an average vehicle must fit into the camera's field of view.
4. The vehicle should occupy at least 75% of the drawn area.
5. Vehicles must move in one direction only: **right to left**.
6. The customer must reach his/her hand over to the drive through window to complete transaction. If the customer does not reach his/her hand over to the drive through window the vehicle will **NOT** be counted.



Important
DO NOT draw a region around a larger car such as a van or a truck.

Important
If the Drivethrough Window is visible in the camera field of view, make sure that the drawn region does not include any part of the window.

To configure DriveThrough, do the following:

1. Select the desired camera in the Camera Selection area.
2. Check off the **Enable DriveThrough** checkbox to enable the VisionCount feature for the selected camera
3. Check off the **Overhead Camera** checkbox if the overhead-mounted (straight down) camera is used
4. Select the polygon drawing tool.

a. Only one area can be drawn. Note that the area, where a region can be drawn is limited by four red dots on the live image

   No more than 39 points can be used in the polygon shape

b. Draw a polygon region around a sedan-type car

c. Double-click or click on the first point to complete a polygon shape

d. Right-click or press **Esc** to delete created points before a polygon shape is complete

5. Adjust the drawn region or move it to desired position if necessary

   To delete the drawn region, click **Clear**

6. Name the drawn region in the **Area Name** field

7. Select the **Transaction Channel** from the drop-down menu. This camera number indicates which camera can be used by POS for drivethrough transaction. The selected transaction camera must be different from the current Vision-Count channel.

8. Configure **Active Time** for the drawn area. The DriveThrough counting will only work within the set Active Time. In the example above, DriveThrough is only active from 7:00AM to 11:00PM.

9. Check off the **Count All** checkbox to count each vehicle that enters the drawn region

   OR

   Uncheck the **Count All** checkbox and enter desired **Period of Time** in minutes and seconds. This function counts vehicles based on the period of time they spend inside the drawn region.

   E.g. To count vehicles that remain in the drawn region for more than 60 seconds, enter 60 seconds in the Period of Time section. The purpose of this would be to determine how many drive through customers took longer than 1 minute to service. This may be useful for drive through standards reporting. I.e. If the manager requires the cashiers to service each drive through customer in 45 seconds or less, they can count all discrepancies in the end of each shift using this counting function.

   The period of time can be configured to a maximum of up to 59 minutes and 59 seconds.

10. Click the **Save** button to save the settings

    The settings apply to the selected camera only. To configure another camera for DriveThrough, select the desired camera and repeat the previous steps.

Tip

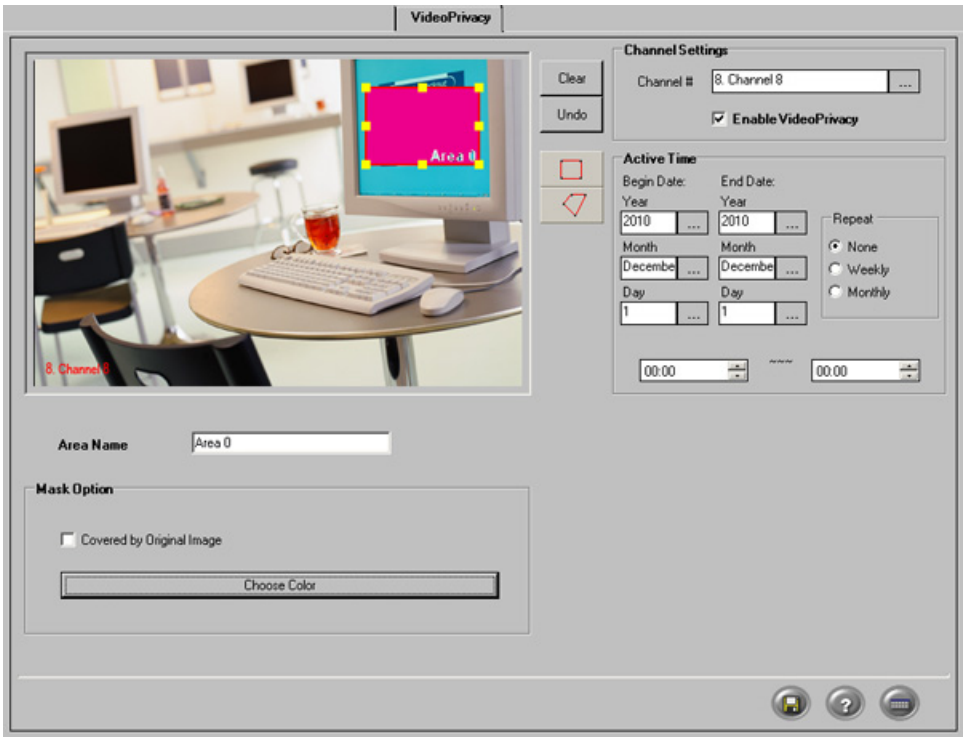
The number of vehicles passed and the stay time for each vehicle is embedded in the video recording and can always be seen on the live image and during the playback. These counters will only be displayed after the Save button is clicked.

Important

The counter will be reset every midnight.

1.4.20. Video Privacy Setup

Video Privacy Setup setup allows masking of up to two polygon or rectangular areas on each selected channel. The masking option can be used to obstruct the view of unwanted areas inside the camera's field of view. Note, however, that if the camera in question is a PTZ camera, the masking will remain static and will not be adjusted if the user pans/tilts/zooms the camera from its original position.



To configure the Video Privacy, do the following:

1. Select the desired camera in the Camera Selection area.
2. Check off the **Enable Video Privacy** checkbox to enable the VideoPrivacy feature for the selected channel.
3. Choose rectangular or polygon drawing tool.
4. Draw the detection zone in the live view screen. A total of two masking areas can be drawn – rectangular, polygon or both.
   a. **For rectangular area:** Click on the live view screen to define the area starting point, hold down the left mouse button and drag to draw a rectangular area.
   b. **For polygon area:** Click on the live view screen to define each vertex of the polygon. Click on the first point defined to complete the polygon.
   c. To adjust the detection zone position on the screen, click on the desired detection zone, hold the left mouse button down and drag the selected zone to the desired position.
   d. Click **Undo** to delete the last detection zone.
   e. Click **Clear** to delete all detection zones for the selected camera.
5. Configure the Masking Option for each masking area. This step can be skipped by clicking **Save** in the bottom of the screen. Black color will be used by default.
   - Select the drawn area in the live view
   - Click **Choose color** to display the color palette, select desired color from palette and click **OK** to save

selection.

OR

Check off the **Covered by Original Image** checkbox and click **Save** in the bottom of the screen to capture the current image within the drawn area and use it as a masking image. To update the original image, click **Save** again.

6. Configure **Time Selection** to only use the configured masking during the selected time. By default, configured masking feature is active all the time.

   - Configure Begin/End active **date** and **time** for masking option
   - Configure **Repeat** option if desired

7. Click the **Save** button to save the configured settings

   The settings apply to the selected channel only. To configure VideoPrivacy for another camera, select the desired camera and repeat the previous steps.

1.4.21. IP Camera

1.4.21.1. Overview

The SRX-Pro Server software supports a number of IP modules and IP cameras. Before using the SRX-Pro Server, all IP modules and IP cameras must be properly installed and configured. Refer to the respective manuals in order to properly configure the IP cameras/modules first.

The user will need WAN or LAN to connect to IP cameras/modules. WAN/LAN must be properly configured by the network administrator before using SRX-Pro Server software.

Even though the IP modules located on WAN are supported, it is highly recommended to use IP modules on LAN ONLY. Since the Internet connection is less reliable than the network connection, the video recording is a lot more stable and reliable on LAN.

Currently SRX-Pro Server supports the following IP modules: ANNEXXUS 101M, 104, 204, 304, 301, 301C, 301C2M, 301D2M, 316, 401C1M, 401C1MN, 401D1M, 401PTZ. Note that by connecting analog cameras to ANNEXXUS 104, 204, 304, and 316, their PTZ capabilities may still be used.

The SRX-Pro Server software supports a number of IP modules and IP cameras. Before using the SRX-Pro Server, all IP modules and IP cameras must be properly installed and configured. It is important to note that this new version of SRX-Pro is a single software incorporating SRX-Pro, iP-Pro, and Video Analytics including VideoLogix Recording features. Refer to the respective manuals in order to properly configure the IP cameras/modules first.

The user will need WAN or LAN to connect to IP cameras/modules. WAN/LAN must be properly configured by the network administrator before using SRX-Pro Server software.

Even though the IP modules located on WAN are supported, it is highly recommended to use IP modules on LAN ONLY. Since the Internet connection is less reliable than the network connection, the video recording is a lot more stable and reliable on LAN.

Currently SRX-Pro Server supports the following IP modules:

ANNEXXUS 100 Series: 101M & 104

ANNEXXUS 200 Series: 204

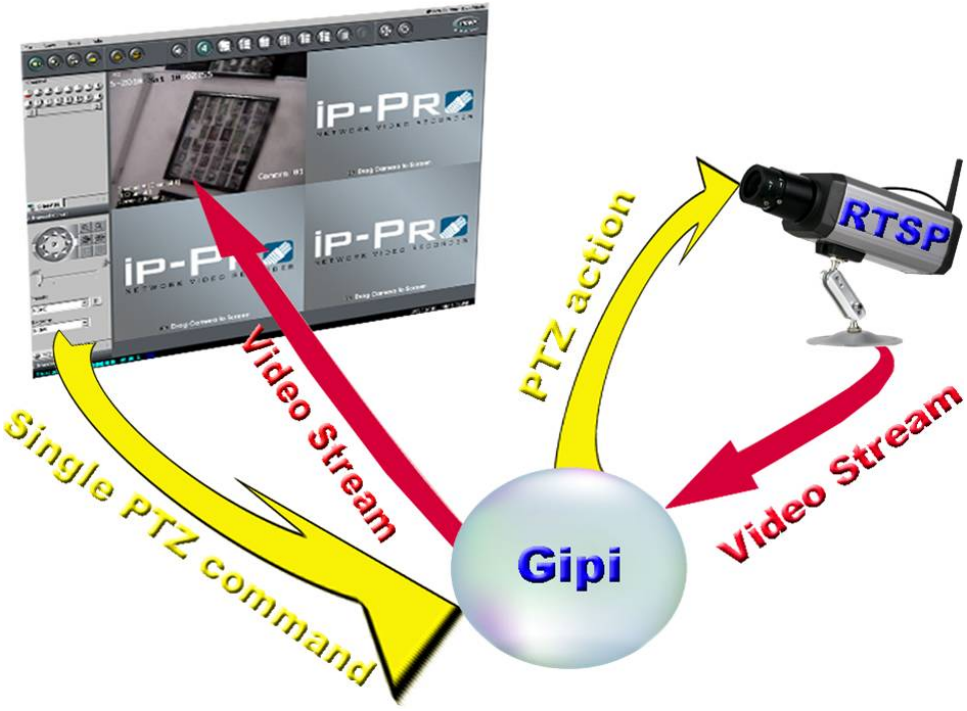
ANNEXXUS 300 Series: 304, 301, 301C, 301C2M, 301D2M, 316, Ax32V1M4, & Ax32VD14

ANNEXXUS 400 Series: 401C1M, 401C1MN, 401D1M, 401PTZ, Ax41B1MVR, Ax41V1MVR

ANNEXXUS 500 Series: Ax52D2MV, Ax53V1MV, Ax53C1MV, & Ax53C5MV

Note that by connecting analog cameras to ANNEXXUS 104, 204, 304, and 316, their PTZ capabilities may still be used.

SRX-Pro v. 2.00 uses Generic IP Integration (Gipi):



With Gipi, the user is able to control PTZ data sending through either Raw or Action sending.

For **Raw data sending** send the whole raw data of the RS485 to the camera. Software won't recognize difference in Camera Protocol, therefore allowing mix of multiple camera IP types.

For**Action sending**, call PTZ interface from the camera. Gipi will support PTZ interface on the camera. This interface will be used to control the camera.

To select Gipi functionality, the user must select his feature on the hardware setup page. Gipi will then acquire PTZ functions which are available from the IP module and enable/disable functions in Generic PTZ type.

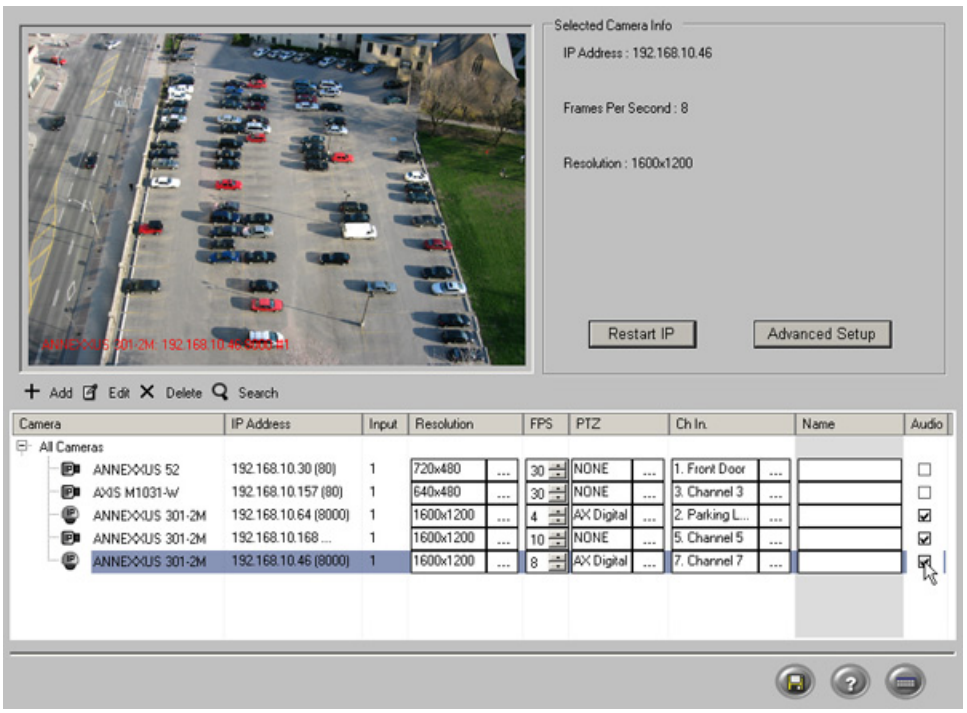
Through Gipi, some functionalities supported include:

1. *Pan/Tilt* - Right, Left, Up, Down.
2. *PTZ Speed.*
3. *Zoom.*
4. *Preset.*

pan/tilt (right, left, up, down)

Important

If no SPK key is present or if the SPK key is not programmed to support IP channels, no IP cameras may be added to IP Camera setup.



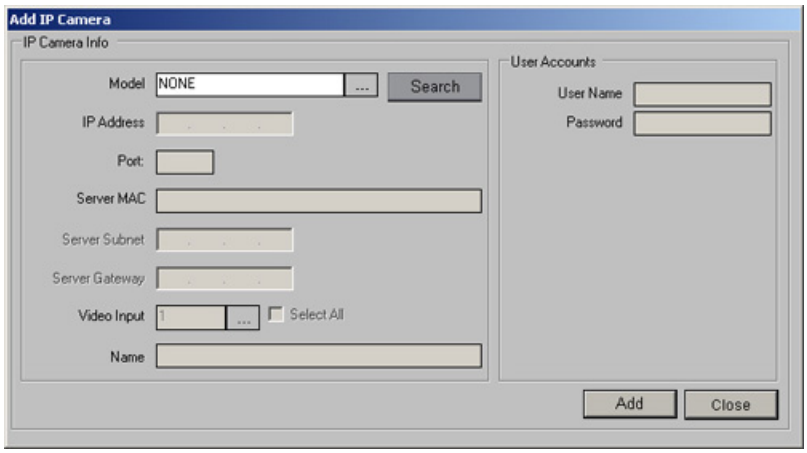
1.4.21.2. Add IP Input

Use the instructions below when the IP address of the ANNEXXUS module/IP camera is known and/or when the ANNEXXUS IP module/IP camera is located on WAN.

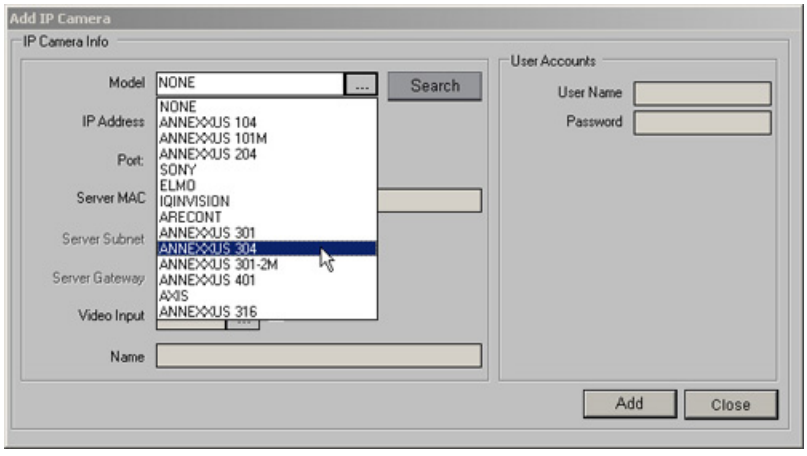
To add IP input, do the following:

1. Click the **Add** button

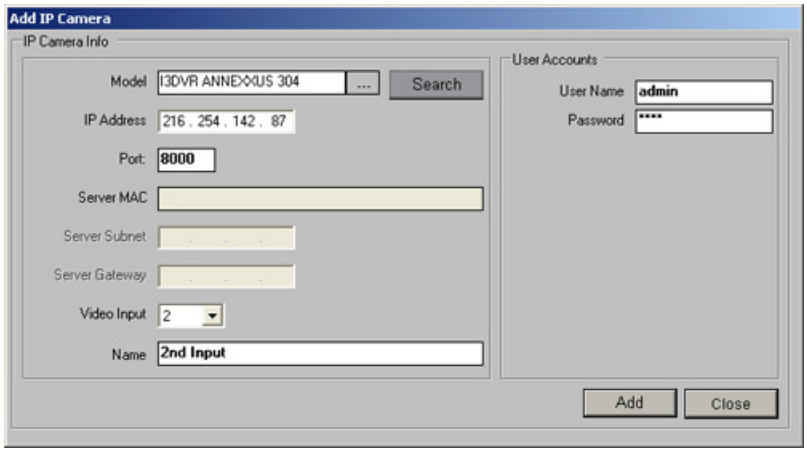
2. Add IP Camera window will be displayed as shown below:



3. Click the **Browse** button [...] to select the IP Module or the IP camera model from the list. In the example below, **I3DVR ANNEXXUS 304** has been chosen.



4. Enter the **IP Address** of this IP Module/IP Camera. It is not recommended to change the default port number.



5. Choose the **Video Input** from the drop-down menu (if applicable). This is IP Module camera's input number. Each ANNEXXUS 104, ANNEXXUS 204 and ANNEXXUS 304 IP module supports up to 4 camera inputs and ANNEXXUS 316 supports up to 16 camera inputs.

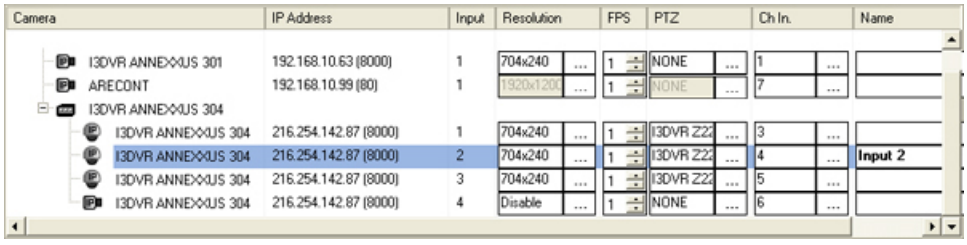
This step does not apply to any other IP / Megapixel camera apart from ANNEXXUS 104/204/304/316.

6. Enter the **User Name** and **Password** of user (if applicable), who will have permission to view this IP input. Each ANNEXXUS module allows adding a list of users that are permitted to connect to the IP camera(s). If the user name/password do not match ANNEXXUS user database, IP camera resolution will be adjusted to "Disabled". This IP camera will then be treated as video loss on Live Mode.

   This step does not apply to any other IP / Megapixel camera apart from ANNEXXUS 104/204/304/316.

Note
For Annexxus 300-series and 400-series devices, the default login is admin, default password is 1234

7. Click **Add**. The configured IP camera will be added to the list of IP cameras below.



After the new IP video source has been added to the list, some parameters may be adjusted (applies to ANNEXXUS devices only). Click the **Save** button after adjusting any parameters. Use **Advanced Setup** to change settings for true IP cameras and ANNEXXUS 300-series and 400-series modules.

a. **Resolution**. Choose from available resolutions. Applies to selected models of IP modules only. Resolution for IP cameras must be adjusted through the Advanced Setup of each individual IP input.

b. **FPS** (frames-per-second rate). Applies to selected models of IP modules only. Resolution for IP cameras must be adjusted through the Advanced Setup of each individual IP camera.

   This frame rate setting is used for recording. This frame rate is also used on Live Mode, while IP input is in the full screen mode. When any other screen division is selected, IP input will be displayed at 1-3 fps rate.

c. **PTZ** protocol for cameras connected to the IP module (applies to selected models only)

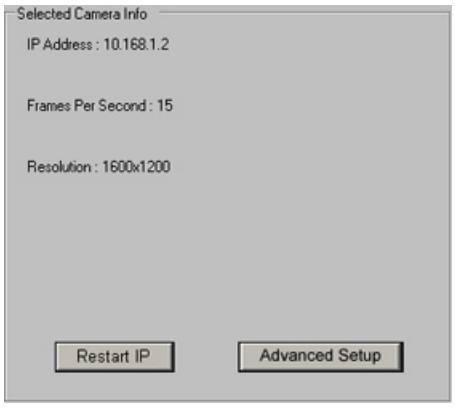
d. Input's custom **Name**

e. **Channel Input.** Each IP input can be linked to any number of video Channels. In the example above, Channel #1 will display IP input at 192.168.10.63, Channel 7 will display IP input at 192.168.10.99, etc.

   Video channels can also be linked with IP inputs in the Hardware Setup tab. To link video channel to IP input, select the desired IP input's address in the **Video** drop-down menu. See Hardware Setup section for more information.

Note
Each channel can be linked with only one IP input at-a-time.

8. While IP input is selected in the **All Cameras** list, it is displayed in the live view window. The following information will be displayed in the Selected Camera Info frame: input's IP Address, Frames Per Second rate, and input's current resolution.



9. To restart the corresponding IP module/IP camera, click **Restart IP**.

10. To access Advanced Setup of the IP module/camera (if available), click **Advanced Setup**. Camera's setup will be launched via Internet Explorer, setup for IP module will be displayed in a separate window.

11. Click the **Save** button to save the configured settings

1.4.21.3. Search IP Inputs

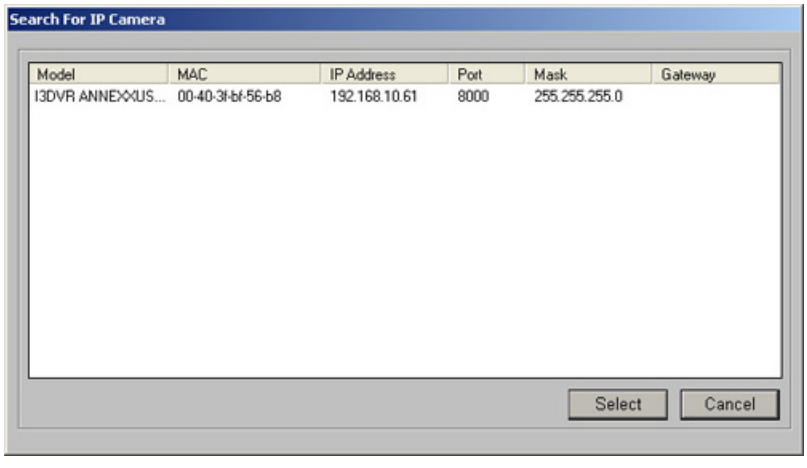
Use the instructions below when IP address of IP module/IP camera is unknown and/or when the IP module/IP camera is located on LAN.

Note

The search command works on LAN only. The SRX-Pro Server must be on the same LAN as the IP module/IP camera. IP modules/IP cameras located on WAN will not be displayed when using search command.

To find IP input, do the following:

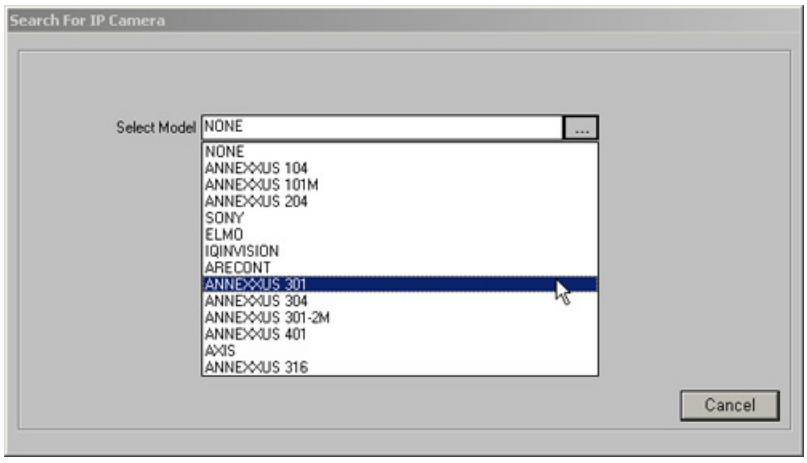
1. Click the **Search** button Search. Wait for the following window to appear:



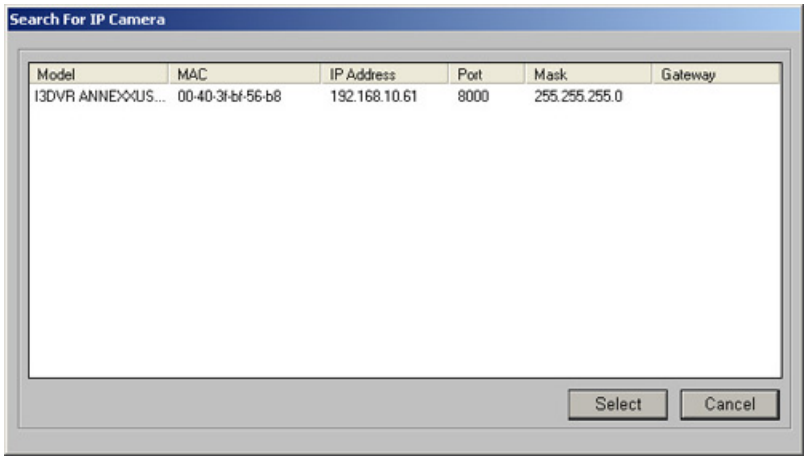
2. Click the **Browse** button ... to select the IP Module/IP Camera **Model** from the list.

Caution

Automatic Search function is currently not supported by ANNEXXUS 304 device. To ANNEXXUS 304 module, use the Add button and enter the IP Address manually.



3. The list of all available IP cameras on LAN will be displayed. The following information is available: Model, MAC address, IP Address, Port, Mask, and Gateway.



4. From the list of all displayed IP inputs, select the desired IP input and click **Select**. The Select IP Camera window will be displayed.

5. In User Accounts section, enter **User Name** and **Password**, then click **Add**. Selected IP input will be added to the list.

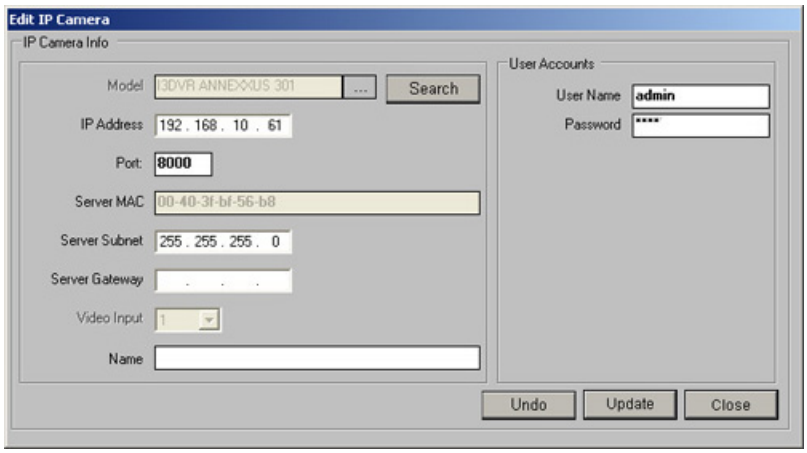
1.4.21.4. Edit IP Input

To edit settings for the selected IP input, do the following:

1. Select desired camera in the **All Cameras** list

2. Click the **Edit** button

. Edit IP Camera window will be displayed as shown below.

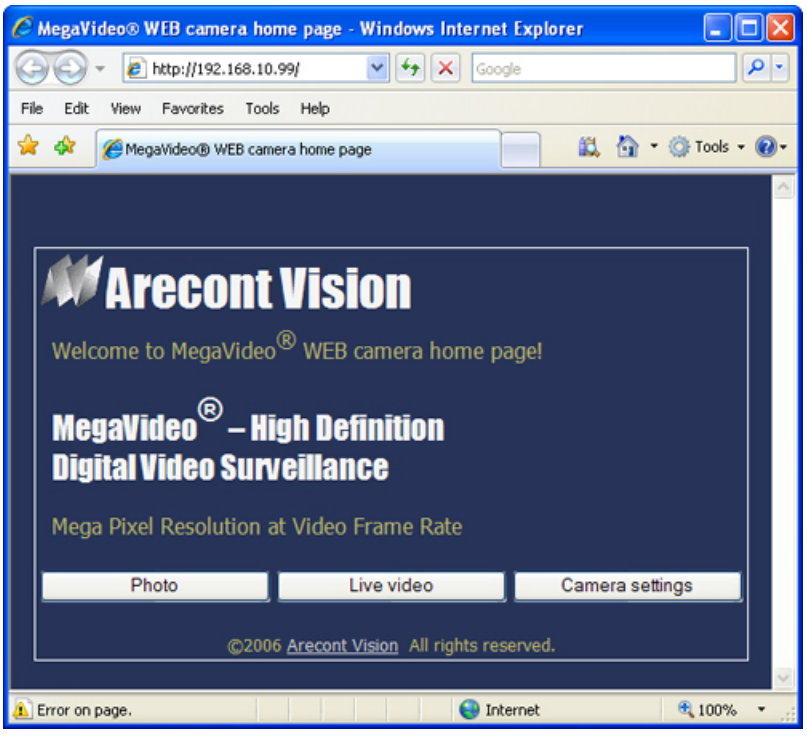


3. After editing desired settings, click **Update** to save changes or **Undo** to discard changes.

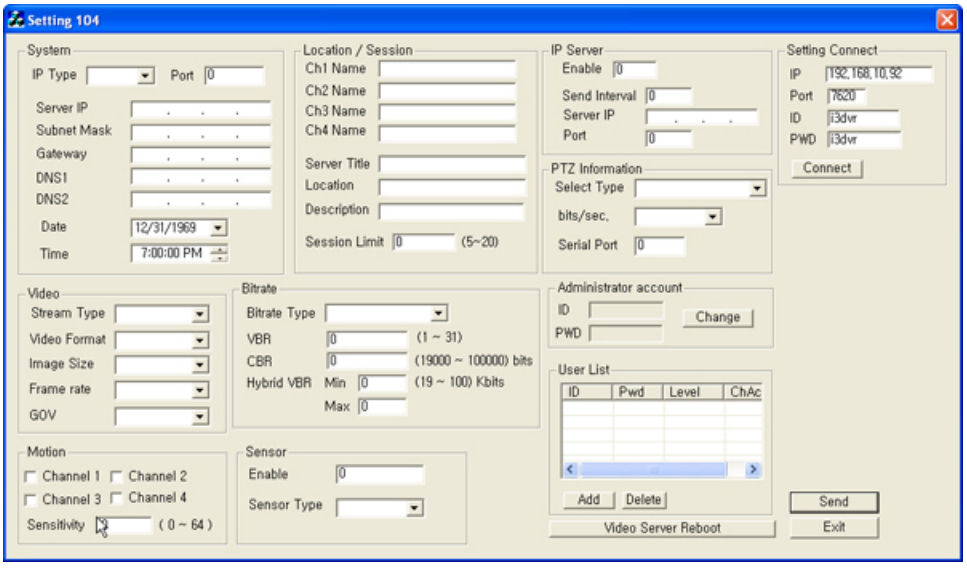
Note: Not all IP modules/IP cameras support this function. Click **Advanced Setup** button to display additional settings for the IP camera/module.

Below is the example of an advanced setup for IQINVISION IP camera.

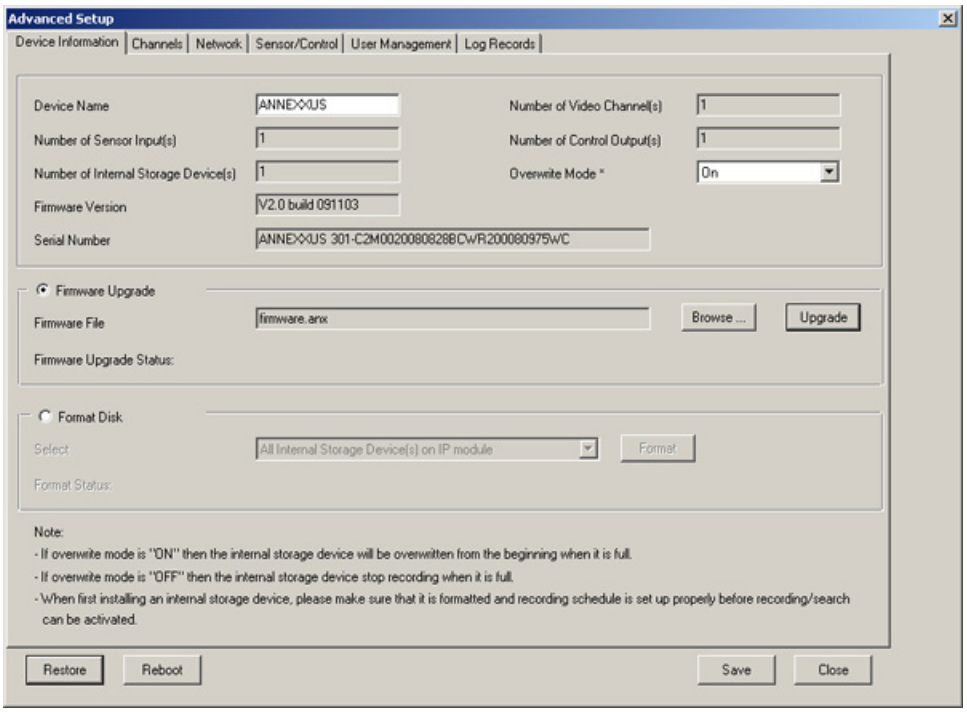
Below is the example of an advanced setup for ARECONT IP camera.



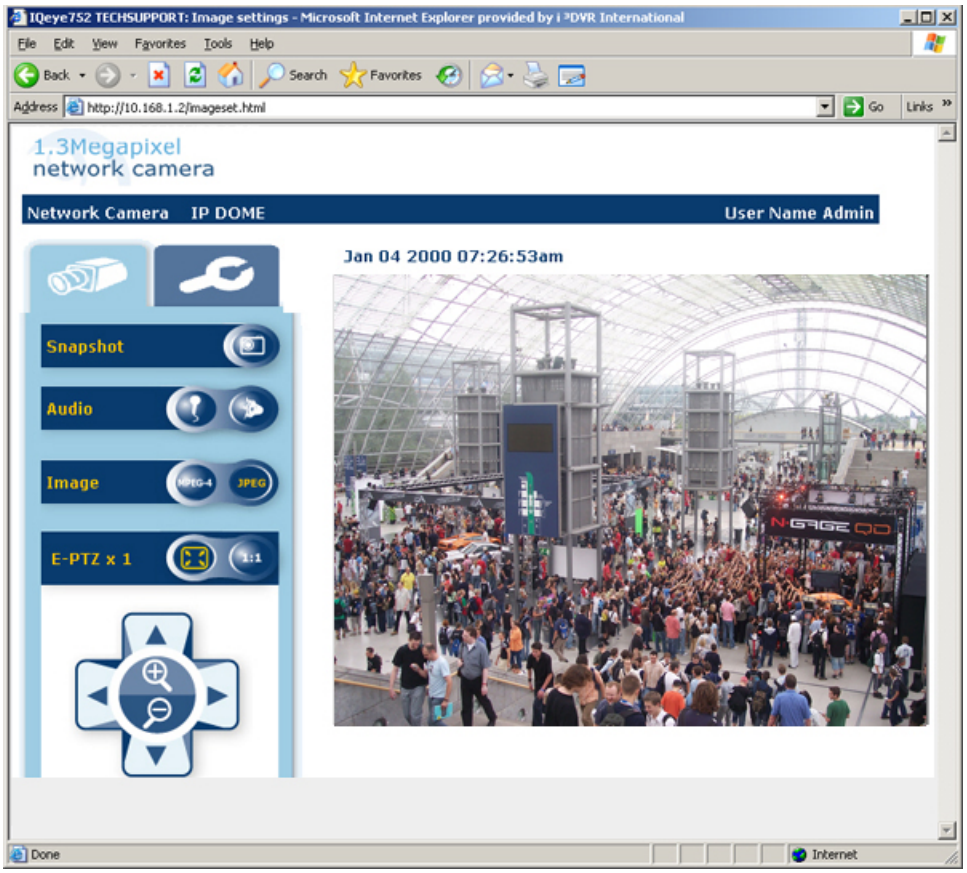
Below is the example of an advanced setup for ANNEXXUS 104 module.



Below is the example of an advanced setup for ANNEXXUS 300-series module.



Below is the example of an advanced setup for ANNEXXUS 400-series module.



1.4.21.5. Delete IP input

To delete an IP input, do the following:

1. Select desired input in the **All Cameras** list
2. Click the **Delete** button . The IP input will be removed from the list.

1.4.22. Recording/Display

1.4.22.1. Overview

Important
This feature is not supported with IP cameras. Frame rate for IP cameras is configured in the IP Camera setup tab.

Tip
Higher frame rate and/or resolution increase the size of the video recording, which in turn decreases the total length of video recording stored on VMS.

Important
Recording frame rate must always be lower than or equal to the emergency frame rate for the same camera.

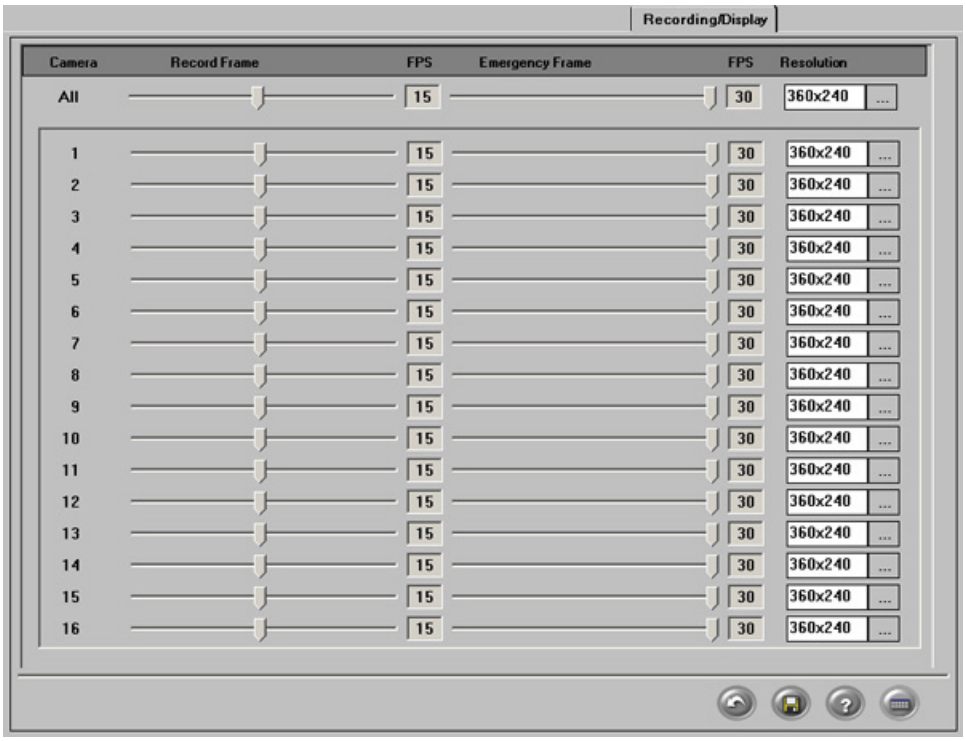
This setup tab allows adjusting the frame rate value and resolution individually for each camera. The user may choose to increase the frames-per-second (FPS) rate and/or resolution for the cameras facing locations that are deemed most important or where most activity occurs.

Recording/Display setup tab also allows disabling video recording on selected cameras; keep this in mind when configuring user privileges in User Management setup.

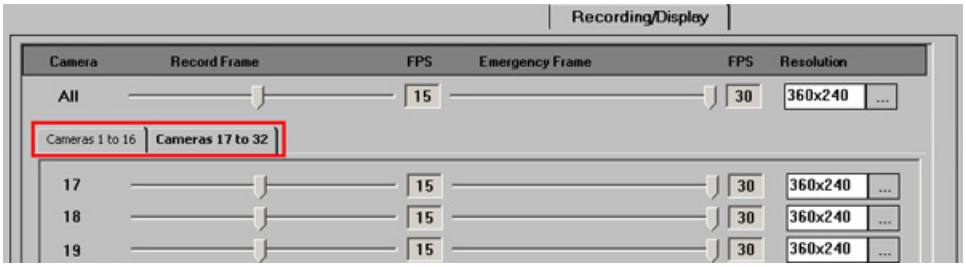
The total Recording or Emergency FPS rate for all cameras may not exceed the maximum FPS supported by the VMS. Increasing the FPS on specific cameras may decrease the FPS number on the rest of the cameras to compensate. Also, the higher resolutions will cause the total number of available frames-per-second to decrease.

Recording and emergency frame rate settings apply to cameras and not channels. Frame rate settings affect the Live Mux display rate and the video recording/playback rate. The higher the frames-per-second rate, the smoother does the video recording appear; the lower the FPS rate, the choppier the video looks. Be aware that some movements/events may be missed as a result of a low frame rate.

To assign the average recording/display and emergency frame rate value to each camera, click **Default** button



Note that in 32-channel software, only 16 cameras are shown at-a-time. To see settings for cameras 17-32, click the appropriate tab.



1.4.22.2. Configuring Recording/Display frame rate

Important

This setup tab affects recording frame rate and display frame rate for MUX display (not Real-time display)

The SRX-Pro Server supports a total of up to 240 frames per second (SPK key dependent). SRX-Pro Ultra Lite, Lite and 32-channel software support a maximum of 60 FPS, 120 FPS and 480 FPS respectively. With no SPK key, the maximum total frame rate supported is 60 FPS. Note that the total frame rate is divided between both analog and IP cameras.

To configure Recording/Display frame rate, do the following:

1. Use the **All** slider in the **Record Frame** portion of the setup to control FPS rate for all cameras at the same time or use individual sliders for each analog camera. Drag slider left/right to decrease/increase the recording/display FPS rate. Note that it is impossible to set Recording frame rate to a value higher than Emergency frame rate value.

2. Click **Default** to assign an average FPS number of each camera

3. Click the **Save** button to save the configured settings

Important

This setup tab affects recording frame rate and display frame rate for MUX display (not Real-time display)

1.4.22.3. Configuring Emergency frame rate

Emergency frame rate allows the user to temporarily increase the recording frame rate in case of motion detection or triggered sensor. Note that the total Emergency FPS rate for all cameras may not exceed the maximum FPS supported by the VMS.

Note that emergency frame rate will be ignored for all video channels configured for VideoLogix.

Emergency frame rate may *only* be used when a channel records based on a continuous recording schedule (Schedule Setup). When emergency frame rate is configured for the camera, it will record continuously at the FPS rate set in Record Frame menu until the motion is detected or until linked sensor is triggered; as soon as the motion is detected on the same camera (Motion Setup) or the linked sensor is triggered (Hardware Setup - Sensor Settings), the emergency FPS setting will take effect until 10 seconds have elapsed since the sensor activation or since motion has ceased. After 10 seconds have elapsed since the motion stopped or sensor has been activated, the regular recording FPS setting will take over once again.

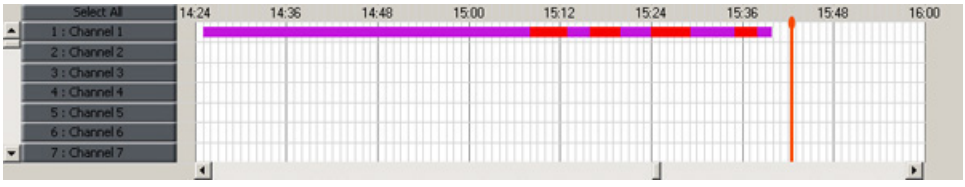
When emergency frame rate is properly configured, one of the following indicators will be displayed in channel's top right corner in Live (Mux) mode: **C/E** or **C/E Audio**, if audio is also configured for the same channel.

Consider this scenario:

Channel 1 is associated with Camera 1. Channel 1 is configured for continuous recording schedule. Motion detection is configured for Channel 1. Recording frame rate for Camera 1 is set to 5 FPS, while emergency frame rate is set to 30 FPS.

This means that as long as no motion is detected on Channel 1, it records continuously at 5 frames-per-second. However, as soon as the motion is detected on Channel 1 and until the motion has stopped, it will record at 30 frames-per-second.

The portions of video that has been recorded at a higher frame rate in response to motion will be highlighted red on the timeline in both Live and Search modes, as shown below.



To configure Emergency frame rate, do the following:

1. Use the **All** slider in the **Emergency Frame** portion of the setup to control emergency FPS rate for all cameras at the same time or use individual sliders for each analog camera. Drag slider left/right to decrease/increase the emergency FPS rate.

   The Emergency Frame rate must be higher than Recording Rate to work as expected. If you do not wish to use this option, set it to the same value as Recording Frame rate.

   OR

   Click **Default** to assign an average FPS number of each camera.

2. Click the **Save** button to save the configured settings

3. Associate cameras configured for emergency frame rate recording with desired channels (Hardware Setup).

4. Configure motion detection for all channels that are associated with emergency frame rate cameras (Motion Setup).
5. Link enabled sensors to the channels that are associated with emergency frame rate cameras (Hardware Setup - Sensor Settings)
6. Configure recording schedule to Continuous for all channels that are associated with emergency frame rate cameras (Schedule Setup).

1.4.22.4. Configuring resolution

Note
Changing the resolution for all or just one camera will cause the FPS rate for all cameras to be reset to default values.

Tip
Disabling the camera in the resolution drop-down menu is the only way to set its FPS rate to 0.

SRX-Pro software supports the following resolutions: 720x480, 720x240 and 360x240

Note: SRX-Pro Ultra Lite and Lite support following resolutions only: 720x480 (half frame quality) and 360x240

The higher the resolution, the higher the quality of the video recording and the more hard drive space is required for storage. Note that with the higher resolutions will cause the total number of FPS to drop.

Resolution setup allows disabling video recording on selected cameras (video sources). When selected camera is disabled, all channels that are associated with it will stop recording until the camera is enabled again.

To configure Resolution, do the following:

1. Click on the **Browse** button in the **Resolution** portion of the setup to view all available resolutions in a drop-down menu. Use the **All** drop-down menu to control resolution for call cameras at the same time or use individual resolution drop-down menus for each analog camera.
2. Select one of the available resolutions. You may choose to use the same resolution setting for all cameras or set the resolution based on the camera's importance.

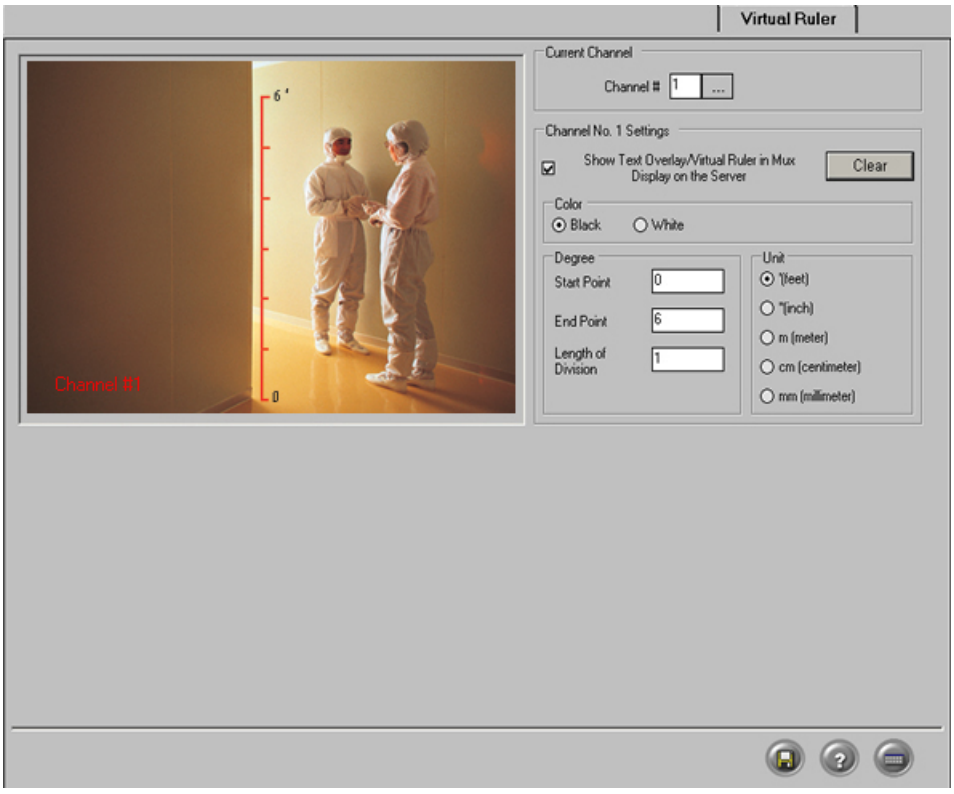
Caution
When DISABLE is selected in the resolution drop-down menu, all channels associated with this camera (video source) will stop recording and the camera's FPS rate will be set to 0.

3. Click the **Save** button to save the configured settings

1.4.23. Virtual Ruler

1.4.23.1. Overview

With this feature it is possible to approximate the height of a person once they are in the camera's view. During playback, the person's height can be estimated with regard to the virtual ruler. (In the example below, the ruler is 6' long with a division value of 1'.)



1.4.23.2. Configuring Virtual Ruler

To configure Virtual Ruler setup, do the following:

1. Click the **Browse** button ... in the **Channel #** field to select the desired channel from the list. Only channels activated in the Hardware Setup tab will be displayed.

2. Check off **Show Text Overlay/Virtual Ruler in Mux Display on the Server** to see the Virtual Ruler in the live view window.

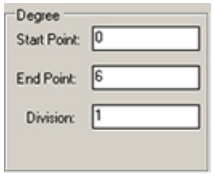
3. Select the **Color** (Black or White) of the ruler that will be shown on the screen. Choose the color that will best contrast with the background.

4. In the **Degree** frame, enter the **Start Point** value of the ruler. This number will be shown at the starting point of the ruler.

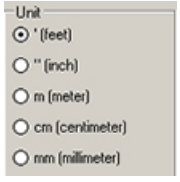
5. In the **Degree** frame, enter the **End Point** value of the ruler. This number will be shown at the end point of the ruler.

6. In the **Degree** frame, enter the **Length of Division** value, which is the value of one ruler division. This number has to be smaller than the length of the ruler, or will be assigned the same value as the length of the ruler. The division value is the distance (in chosen units: feet, meters, etc.) between two dividers. To obtain the total number of ruler divisions, the length of the ruler is divided by the Length of Division value.

7. The smaller the division value, the more divisions there will be on the ruler. The SRX-Pro Server will automatically adjust the division value if the length of the ruler can not be equally divided by the specified Length of Division value.



8. In the **Unit** section, select the desired unit of measurement: feet, inches, meters, etc.



1.4.23.2.1. Drawing a Virtual Ruler

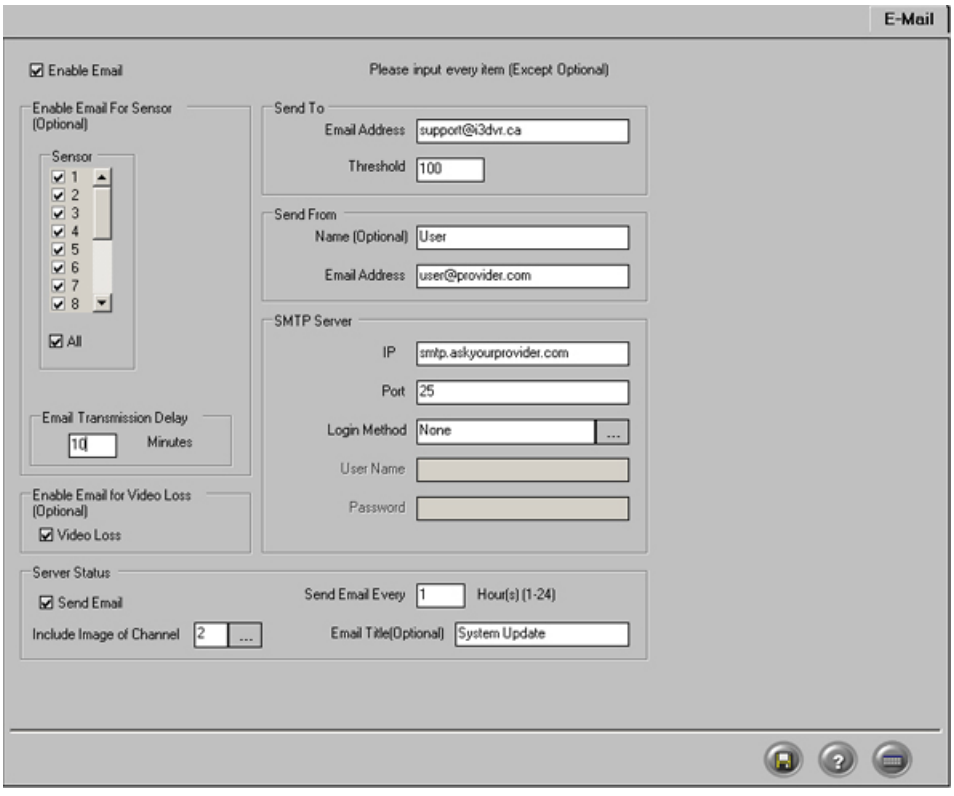
1. Physically measure the height or the area covered in the camera view
2. Draw a mark(s) on that area to signify the start and end points of the ruler
3. Using the mouse, move the cursor to the live view window in the Virtual Ruler Setup tab
4. Hold down the left mouse button, and drag it in a straight line
5. Adjust or move the ruler if necessary. To erase the ruler click **Clear.**

Example,

For example, the height of the door entrance is exactly 84 inches. The ruler starts with 0 (floor) and ends with 84'' (top of the entrance). The unit of measurement is inches. Originally, the Length of Division value entered was 10, however, 84 cannot be equally divided by 10, and therefore the SRX-Pro Server adjusted the value to 10.5. Therefore, 84''/10.5'' = 8. The ruler is divided into 8 equal parts, with the value of one division equal to 10.5 inches.

1.4.24. E-Mail Setup

This Setup tab allows the sending of an alert via email when a sensor is triggered, or when a video signal has been lost. It can also send the status of the Server by sending a screen shot from a specified channel.



There are four ways to send an email alert:

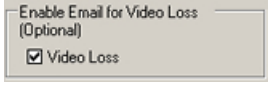
1. **Triggered Sensor(s)**

   Select appropriate sensors in the **Enable Email For Sensor** frame. Whenever any of the selected sensors are triggered, an e-mail alert will be sent to the configured e-mail address.

> **Tip**
> Sensors must be enabled and configured in the Hardware Setup.

2. **Video Loss**

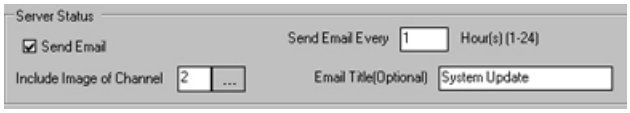
   Check off the **Video Loss** checkbox in the *Enable Email for Video Loss* frame. When video loss is detected on one or more channels, an e-mail alert will be sent to the configured e-mail address.



3. **Scheduled Server Status**

   This section allows the user to configure scheduled e-mails to provide the server status. The email includes a snapshot from the specified channel. To have the VMS send server status e-mails, fill in **Server Status** section:

> **Note**
> A first e-mail is sent after changes to this setting are saved and on the SRX-Pro Server startup. The SRX-Pro Server will then send e-mails according to the set schedule. In the above example, every hour.



   a. Check off the **Send Email** checkbox to enable server status e-mail alerts

   b. Select the frequency of the automatic e-mails (1-24 hours) in the **Send Email Every** field. In the example above, the server status email will be sent out every hour.

c. In the **Include Image of Channel** field, click the **Browse** button [...] to select the desired channel from the list. A snapshot from this channel will be sent out. In the example above, snapshot from Channel 2 will be sent out every hour to the configured email address.

d. Enter the **Email Title** for the server status e-mail alerts (Optional).

4. **Intelli-Guard™ alert**

Intelli-Guard™ function can be configure to sent out an email alert every time the motion has been detected. (See Intelli-Guard™ section for more information).

1.4.24.1. Configuring Email Setup

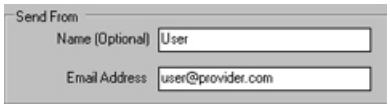
1. Check off the **Enable Email** checkbox to enable Email feature.

2. Fill in the **Send To** section:

a. Enter the *Email Address* of the recipient

b. Enter the *Threshold* number. This value refers to the total number of emails sent when a sensor is triggered or video loss is detected.

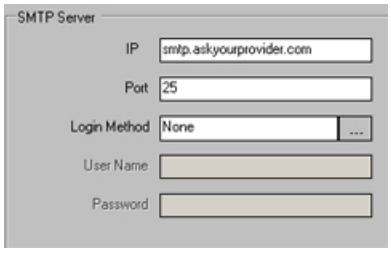
3. Fill in the **Send From** section:



a. Enter the *Name* of the sender (Optional)

b. Enter the *Email Address* of the sender

4. Fill in the **SMTP Server** section: Depending on the location, each Internet provider has specific SMTP information. Obtain this information from your Internet provider.



a. Enter the **IP** Address of the SMTP server. Ask your provider for SMTP server address.

b. Enter the **Port** number. It is not usually necessary to change the port number. Most SMTP servers have a default port. For more information on default Ports, contact the email account manager.

c. Select the **Login Method**. "None" is the default method; otherwise, contact the email account manager.

d. Enter the *User Name* and **Password**: Some Internet providers require user names and passwords to send out emails, if this is the case, enter them accordingly.

5. Enter the **Email Transmission Delay**. This option sets the amount of time that will pass before email transmission.

Related Topics: Hardware Setup-Sensor Settings | Intelli-Guard™ Setup

1.5. Search and Playback on SRX-Pro Server

Search is one of SRX-Pro Server's most used features. DVR technology provides an instantaneous search by time/date/channel and object search - an exclusive feature not offered by VCR technology. Effective and easy search capabilities make DVR technology much more efficient as it eliminates hours of video screening- a task which is not uncommon with conventional VCR technology.

Search and Playback is available from both Search and Live modes.

1.5.1. Video Search and Playback on Live Mode

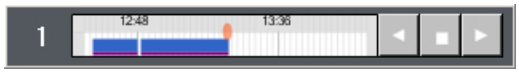
SRX-Pro software allows the user to search the specific channel(s) in the Live Mode view. This allows performing the search on the selected channel(s), while monitoring the remaining channels in the Live Mode. On Live Mode, search can be performed individually for each camera, i.e. the start playback time can be different for each channel.

To playback recorded video on Live Mode, do the following:

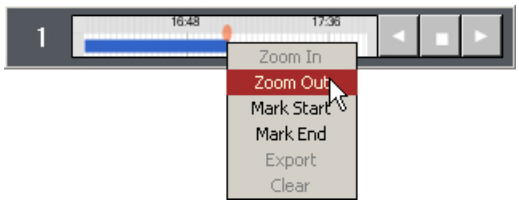
1. Right-click on the desired channel in the Live Mode
2. Select the Search Mode from the context menu

3. Repeat steps 1 and 2 for all desired channels
4. The 24-hour timeline with control buttons will be displayed for selected channels. This 24-hour timeline is similar to the 24-hour timeline in Search Window. Live Mode, however, only allows searching within a 24-hour period. Access Search Mode to search outside of the current calendar day. To move the timeline on the screen, position the cursor over the channel number, left-click and hold the mouse button, while moving the timeline to desired position.

The timeline with recorded audio will look as follows. The purple line underneath the blue video recording bar represents the audio recording. The audio recording can only be played back in the Search mode. See Audio Playback in Search Mode section.



5. Timeline is expanded by default to simplify search. To zoom out of the timeline, right-click on the timeline and select **Zoom Out** from the context menu; repeat to zoom out twice.



6. To playback the recorded video using the timeline, do the following:

   a. Position the red timeline marker at the playback start time

   b. To start/resume playback, click the **Play** button . Click again to increase the playback speed. Available speeds: 1X, 2X, 16X.

   c. To stop playback, click the **Stop** button

   d. To reverse playback, click the **Reverse** button . Click again to increase the playback speed. Available speeds: 1X, 2X, 16X

7. To return to the live mode, do the following:

   a. Right-click on the desired camera in the Search Mode

   b. Select the Live Mode in the context menu

   c. Repeat steps 1 and 2 for all desired cameras

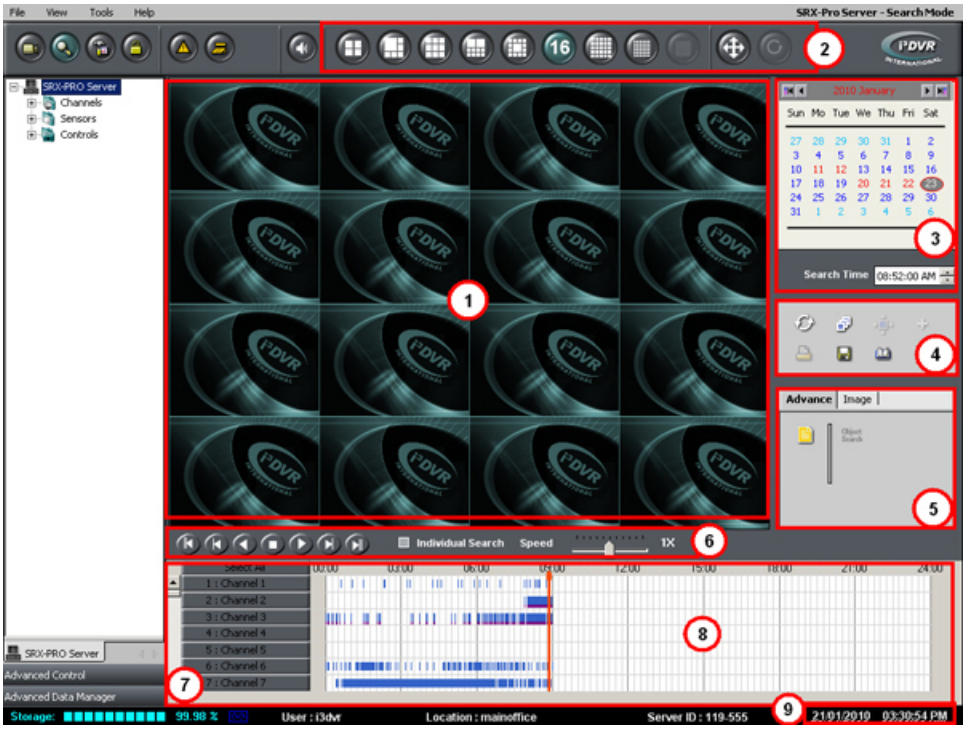
The exact time will be displayed inside the timeline on the mouse cursor roll-over. Note that the roll-over time is displayed for the mouse cursor and not the red timeline marker. In the example below, the red timeline marker is positioned at 5:20 AM, while the mouse cursor is pointed at 12:00 PM. The roll-over time displayed inside the timeline is 12:00:00 PM.

1.5.2. Search Mode Window

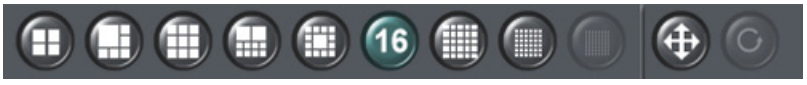
To browse through the recorded video in Search Mode, click the **Search** button on the main screen . The Search window will be displayed.

The main areas of the Search window are:

1. Display window
2. Screen Division panel
3. Time panel
4. Tools panel
5. Other Features: Advanced Search panel / Image Settings panel
6. Playback control panel
7. Channel selection for search
8. 24-hour timeline
9. Current Time/Date



1.5.2.1. Screen Division Panel



Use the screen division panel the same way as on the Main Screen to switch between 4, 6, 9, 10, 13, 16, 25 and 36 screen divisions.

Use the **Full Screen** button to display a single channel, selected screen division or still image in the full screen mode with no Graphic User Interface (GUI)

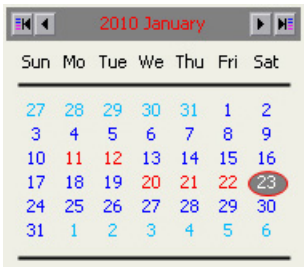
1.5.2.2. Time Panel

Search Time

Browse through the 24-hour clock by scrolling the arrows up and down. Adjusting the time in this menu will move the time line marker on the timeline bar.

In this example: the time line marker in the timeline bar is set to 4:04PM

Calendar



To display previous/next month, click on the arrows:

To go to the first/last recorded date, click on the arrows:

Days displayed in red are days for which there is recorded data.

A day highlighted in grey indicates a day selected for a search

A day circled with a red oval indicates the current day of recording

In this example: There is recorded video data on January 11th - 12th and 20th - 23rd, 2010. Video recording for January 23rd is currently displayed. The current day of the video recording is January 23rd, 2010.

Go to Month

To quickly access a specific month, click on the month in the calendar window and select the desired month. The calendar will display the selected month.

1.5.2.3. Channel Activation Buttons

Channel Activation Buttons allow choosing specific channels for each search. To select a channel for search, click the Channel Activation Button. The video recording area associated with this channel will be highlighted in blue. Click **Select All** to select all channels.

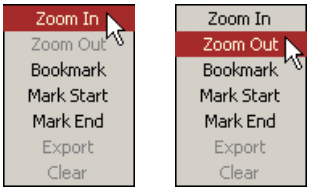
1.5.2.4. 24-hour Timeline

Timeline provides a visual representation of the recorded video data. The recorded data is represented by multi-colored bars. The color of the bar indicates the type of the video recording (motion, sensor, continuous or motion + sensor).

The timeline bar permits navigating through recordings made with different channels and browsing through a 24-hour clock.

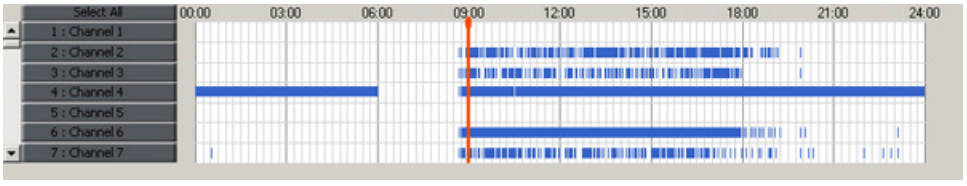
This timeline represents a single day chosen in the Calendar. Timeline can be expanded to simplify a search. Right-click the 24-hour time line. A context window will appear.

Choose **Zoom In** to expand the time line bar or **Zoom Out** to collapse the time line bar.

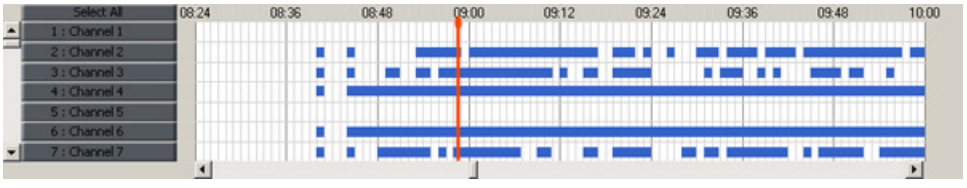


When expanded, the Timeline bar has both vertical and horizontal scroll bars. The vertical is used to browse through all available Channel Activation Buttons, the horizontal scroll bar is added to browse through the expanded 24-hour timeline

Timeline (normal)



Timeline (expanded)



1.5.2.4.1. Channel Scroll Bar

Scroll up and down to see all available Channel Activation Buttons

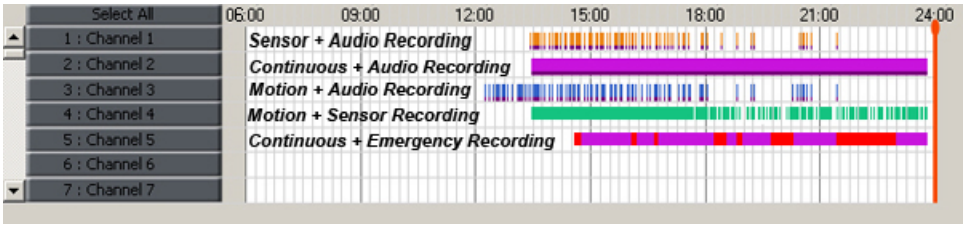
1.5.2.4.2. Timeline Marker

The red line inside the 24-hour Timeline is the Timeline marker that indicates the playback start time. In the example above, the Timeline marker is set to 8:58.

1.5.2.4.3. Video Recording Bars and Types of Recording

Multicolored bars represent different types of recording.

- the pink bar indicates Continuous Recording (Channel 2 is recording based on Continuous recording schedule)
- the orange bar indicates Sensor Recording (Channel 1 is recording based on Sensor recording schedule)
- the blue bar indicates Motion Recording (Channel 3 is recording based on Motion recording schedule)
- the green bar indicates Sensor + Motion Recording (Channel 4 is recording based on Sensor + Motion recording schedule)
- the thin purple bar underneath the video recording bars indicates Audio Recording (Channels 1-3 have audio recording)
- the red bar indicates emergency frame rate recording. Remember that emergency frame rate may only be combined with Continuous recording. (Channel 5 is recording continuously with enabled Emergency Frame rate setting.) The recording frame rate must be lower than emergency frame rate and the motion detection must be enabled for the selected channels. See Emergency Frame Rate Recording section for more information.



1.5.2.5. Switching to Daylight Saving Time

Setting the time forward one hour will cause no system confusion. The particular hour jumped will simply be missing from the timeline. However, a problem may occur when the time is moved back one hour in the fall. When this happens, the system will have to overwrite the previously recorded hour of information. As a result, valuable information could be lost, which is why the System time in the SRX-Pro Server can be set forward only.

In order to avoid the loss of information, a 25th hour is added when the Daylight Saving Time ends in the Fall and clocks are set back an hour. This method of time adjustment prevents the loss of video data and does not "confuse" the system.

I.e: With this method, the timeline will have two instances of '1:00 AM.' This way, the video data will not be lost or re-corded over, while system time stays correct and up-to-date. Zoom in the timeline to see the time.

1.5.2.6. Playback Control Panel

Playback buttons are located on the bottom of the Search Window.

Skip to the beginning of the recorded data

View previous frame

Reverse playback

Stop

Play

View next frame

Skip to the end of the recorded data

Individual Search - Check off to select a different start playback time for different channels. Must be checked off for audio playback. See Audio Playback in Search Mode section.

Speed – By adjusting the Speed scrollbar, configure the speed of playback. By default, the video is played back at a regular (1X) speed. To increase the playback speed, drag the scrollbar to the right, to reduce the playback speed, drag the scrollbar to the left.

Available playback speeds: 1/6X, 1/5X, 1/4X, 1/3X, 1/2X, 1X, 2X, 16X, 20X, 24X, 32X

1.5.2.7. Tools Panel

The Tools panel contains the following function buttons:

Refresh. Click the **Refresh** button to refresh the timeline to display the recently recorded video.

Panorama. Click the **Panorama** button to view the video segment frame-by-frame in the multiple screen division

Resize. Double click the desired channel to make it full screen and click the **Resize** button to enlarge the image to fit the display window

Print. Click the **Print** button to print the still image on the connected printer.

Backup. Click the **Backup** button to save the video/still image on to local or remote media. This button will open the Backup window.

Bookmark. Click the **Bookmark** button to save the exact time of the video recording, so that it can be quickly located on the timeline later.

Audio Setup. Click the **Audio Setup** button to mute/adjust the audio volume.

Zoom In / Zoom Out / Drag. Click the **Zoom** button to switch between the Zoom In, Zoom Out and Drag functions. The user can right click in the full screen channel's image to zoom in or out of a still image and drag the enlarged image on the display screen.

1.5.3. Audio Playback in Search Mode

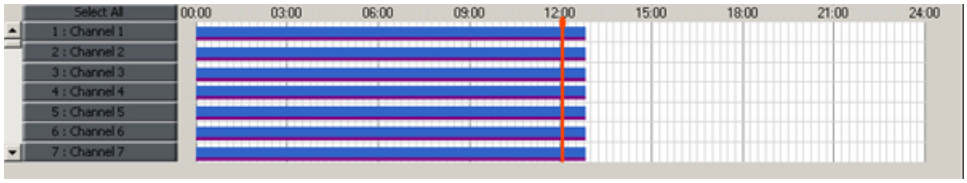
Note
The number of supported audio inputs is hardware and SPK dependent.

Note that audio is recorded simultaneously with the video, i.e. when the video is not being recorded, the associated audio channel is not being recorded either.

Important
The audio recording can only be played back in the Search Mode.

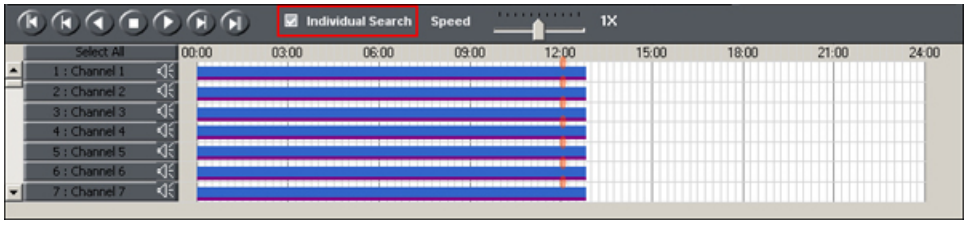
To play back specific audio channel, do the following:

1. Access the Search Mode. The audio recording is represented by a thin purple bar underneath the video bar.

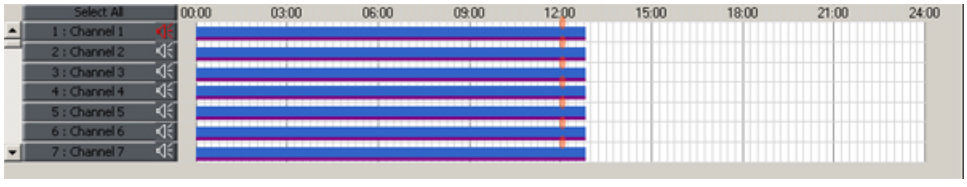


2. Check off the **Individual Search** checkbox to display audio activation icons as shown below.

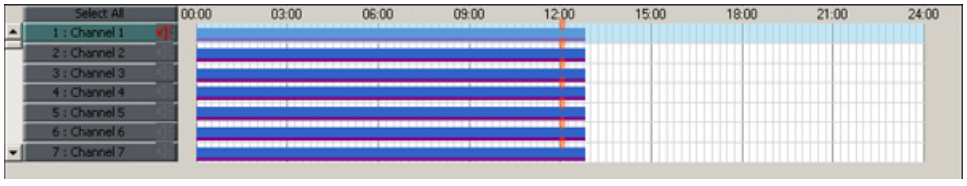
Tip
Only one audio channel can be played at any given time. In order to listen to the audio recording along with the corresponding video recording, the desired audio channel must be selected before starting the video playback.



3. To select the audio channel for playback, click on the audio icon next to the corresponding video channel. The audio icon for the selected audio channel will turn red. In the example below, audio on video channel 1 has been turned on.



4. Select the corresponding video channel.



5. Click the **Play** button on the control panel to initiate video and audio playback.

1.5.4. Video Playback in Search Mode

To playback the video recording in the Search mode, do the following:

1. Choose the date from the **Calendar**
2. Set the start time of the recording in the **Search Time**

   OR

   Set the time of the recording by clicking inside of the timeline bar to set the timeline marker (the vertical red line) to the start of the video recording to be played.

3. Choose one or more channels in the Timeline bar by clicking on the appropriate **channel activation buttons.** If no channels are chosen for the search, the following warning window will appear:

4. To start the playback, click the **Play** button

5. To view a single channel in a 1-channel screen, double-click the desired channel

6. To go back to the multiple-channels screen division, double-click the display screen

7. **Individual Search** allows users to select a different time for different channels for play back. Set the time for each channel by clicking inside of the timeline bar of each channel.

1.5.5. Video Playback from Advanced Data Manager

The Advanced Data Manager allows the user to playback previously created backup files (Encrypted or AVI) or open the backup image files (BMP or JPG).

To access the Advanced Data Manager (ADM), do the following:

1. Click Advanced Data Manager panel (located in the SRX-Pro Control Center) to expand it. SRX-Pro must be in either Advanced or Tree View.

2. In the Advanced Data Manager panel, locate and expand the Backup folder. A list of all backup files: *.i3d, *.avi, *.jpg, and *.bmp will be displayed.

3. To open any backup file, double-click on it.

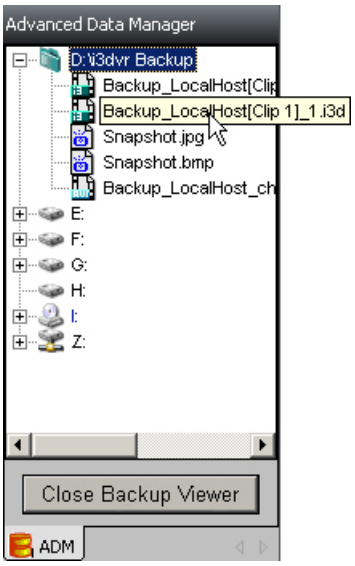
   a. *.i3d files will open in the Search Window.

      In the top right corner of the Main Screen, the current status will become **Server - Backup Viewer Search Mode**

      To return to the Search mode, click **Close Backup Viewer** button in the Advanced Data Manager

   b. *.avi files will open in Windows Media Player

   c. *.jpg and *.bmp files will open in Windows Picture and Fax Viewer



1.5.6. Digital Zoom Feature

It is possible to digitally zoom in/out of the video on SRX-Pro Server without having a Zoom camera installed.

- Digitally zoom in/out of the **live video** in the Live Mode
- Digitally zoom in/out of the video **during the Instant Search** in the Live Mode
- Digitally zoom in/out of the video **during Search** in the Search Mode
- Digitally zoom in/out of the **paused image** in the Search Mode

Note

Digital Zoom will not affect video recording - the complete camera view will be recorded by the system. Detection (i.e. IntelliZone, Intelliguard, VideoLogix or Motion) will also not be affected by Digital Zoom.

Warning

Optical Zoom, will affect both video recording and detection. When camera is optically zoomed into/out of the scene, only the video area that is displayed in the SRX-Pro Server Live Mode will be recorded. Detection zones that fall outside of the optically zoomed scene, will become disabled until the video is zoomed out of. This means that any objects/humans that enter the detection area outside of the zoomed scene will be ignored.

1.5.6.1. Zoom In/Out on Live Video in Live Mode

To digitally zoom in/out of the live video on Live Mode, do the following:

1. *Double-click* on the desired channel to display it in a full-screen mode
2. Hold down **Ctrl** button on your keyboard and *left-click* on the video to **Zoom In**
3. Hold down **Ctrl** button on your keyboard and *right-click* on the video to **Zoom Out**

1.5.6.2. Zoom In/Out during Instant Search in Live Mode

To digitally zoom in/out of the video during the Instant Search on Live Mode, do the following:

1. *Double-click* on the desired channel to display it in a full-screen mode
2. *Right-click* on the video and select **Search Mode**
3. Set the playback start time
4. Click **Play** button to start playback
5. Hold down **Ctrl** button on your keyboard and *left-click* on the video to **Zoom In** up to 18 times
6. Hold down **Ctrl** button on your keyboard and *right-click* on the video to **Zoom Out** of the video

1.5.6.3. Zoom In/Out during Search in Search Mode

To digitally zoom in/out of the video during Search in the Search Mode, do the following:

1. Click on the **Search Mode** button on the main toolbar or go **Tools->Search Mode**
2. Set the date and time for playback
3. Select desired video channel on the timeline
4. *Double-click* on the video image to display the selected channel in a full screen mode
5. Click **Play** button to start playback
6. *Right-click* on the video to **Zoom In** up to 18 times
7. To zoom out, click on the plus sign "**+**" on the tools panel, it will become a minus sign "**-**". Right-click on the video to **Zoom Out**.

1.5.6.4. Zoom In/Out on the Paused Image in Search Mode

Note
The zoomed in picture can then be printed on a local/network printer.

To digitally zoom in/out of the paused image in the Search Mode, do the following:

1. Click on the **Search Mode** button on the main toolbar or go **Tools->Search Mode**
2. Set the date and time for playback
3. Select desired video channel on the timeline
4. *Double-click* on the video image to display the selected channel in a full screen mode
5. Click **Play** button to start playback
6. Click **Stop** button to stop playback at the desired frame
7. *Right-click* on the video to Zoom In up to 18 times
8. To zoom out, click on the plus sign "**+**" on the tools panel, it will become a minus sign "**-**". Right-click on the video to **Zoom Out**.

1.5.7. Using Bookmark

Much like regular paper bookmarks, bookmarks in the Server Search mode are used to mark specific instances in the video recording for quick access at a later time. The Bookmark function saves the date and start time of specific video instance in a single database, to simplify the search process later on.

Bookmarks created on SRX-Pro Server are also visible on SRX-Pro Remote and vice versa.

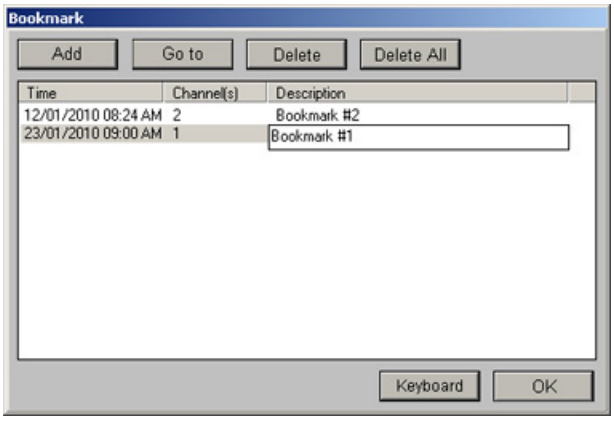
Bookmarks only exist as long as the corresponding video recordings exist on the hard drive(s). Once the video recording is overwritten, the bookmark no longer works. For details on how to prevent old video from being overwritten, see Storage Setup section.

To use the bookmark, do the following:

1. Select the date of the recording in the **Calendar**
2. Set the start time in the **Search Time** window or by clicking directly on the timeline
3. Choose one or more channels in the Timeline bar by clicking on the appropriate **channel activation buttons**
4. Right-click inside the time panel and select **Bookmark** in the context window

   OR

   Click the **Bookmark** button on the Tools panel
5. Click **Add** in the **Bookmark** window. The set time, date, selected channels will be added automatically to the bookmark database.
6. Enter the Bookmark description.



7. To jump to the bookmarked location on the time line, click the **Bookmark** button on the Tools panel and double-click the bookmark entry in the Bookmark window, or select the desired bookmark in the list and click the **Go to** button. The red time line marker will jump to the specified bookmarked time on the Timeline Bar.
8. To delete a bookmark, select bookmark item in the **Bookmark** window and click **Delete**
9. To delete all bookmarks, click **Delete All**
10. To close the Bookmark window, click **OK**

1.5.8. Panorama function

The Panorama function can be used to view the video recording frame-by-frame in the selected screen division. This can be done to see the motion progression, count the number of frames in a second, etc.

To use the Panorama function, do the following:

1. Click the **Panorama** button on the Tools panel
2. Select a channel
3. Set the start time in the **Search Time** window or by clicking directly on the timeline
4. Select the desired screen division: 4, 9, or 16 by clicking on the corresponding buttons on the Screen Division panel
5. Start playback by clicking the **Play** button

   OR

   Click the **Next Frame** button to display each consequent frame in the next screen division.

   In the example below, Channel #2 is displayed on nine screens in the 9-screen division Panorama mode. The Screen division shows 9 consequent frames starting at 08:52:24 (frame#1) and ending at 08:52:24 (frame#9) on November 16, 2007.

1.5.9. Image Zoom In/Zoom Out

Note
These instructions apply to paused still images

To zoom in/zoom out/drag enlarged image, do the following:

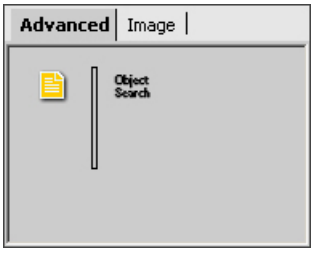
1. Select the channel
2. Set the start time in the **Search Time** window or by clicking directly on the timeline
3. Start playback
4. Double click the desired channel to display it separately in the display window
5. For a still image, stop the video recording by clicking the **Stop** button in the Playback Control panel
6. On the Tools panel select the plus sign to zoom in, or minus sign to zoom out

   To switch between zoom in/zoom out and drag buttons, click the **Zoom** button on the Tools panel
7. Right-click the still image to zoom in/out until the desired result is achieved. The image can be zoomed in digitally up to 18 times. Digital zoom refers to the pixelation of an image. This is not the same as optical zoom, which uses lens capacity to zoom in on a picture. Digital zoom changes the size of the image without affecting its resolution.
8. To drag the enlarged image, choose the **Drag** button on the Tools panel, click the image, hold down the right mouse button and drag the image

1.5.10. Advanced Search Panel

The Advanced search panel allows Index Search and Object Search of the recorded video data.

Index Search/Object Search



Index Search

Object Search

1.5.10.1. Index Search

Note
An Index Search can only be performed within one calendar day.

The Index Search function allows the users to distinguish between different types of recording and gives quick access to the specific frames, where detected motion, or triggered sensor recording took place. Index Search is used to search a recorded video using the recording type: motion, sensor or continuous

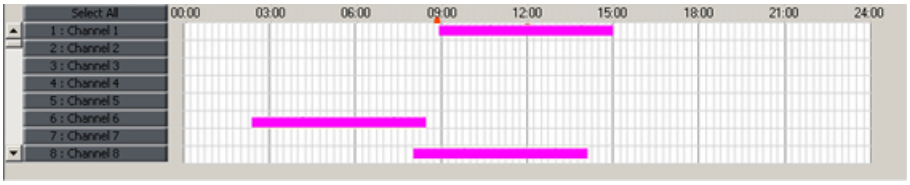
To search the available video recording based on the type of recording, do the following:

1. Click the **Index Search** button . Index Search window will be displayed.
2. Select the day in the **Calendar**. Index Search will search all available video recordings starting from 00:00:00 to 23:59:59 of the same day.

3. When in index search mode, search may be performed based on the type of recording: **continuous**, **sensor** or **motion**

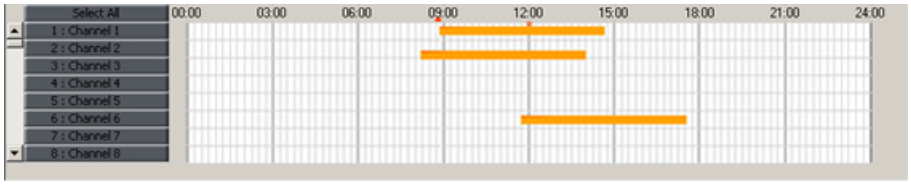
1.5.10.1.1. Continuous Index Search

Select **Continuous Search** to show all video recorded continuously



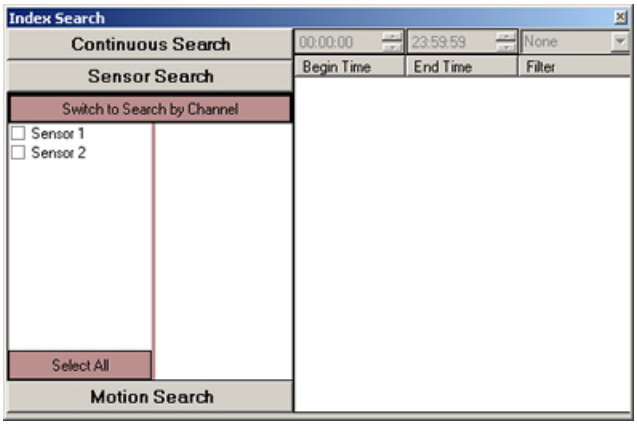
1.5.10.1.2. Sensor Index Search

1. Select **Sensor Search** to show all video recorded based on triggered sensors. This information can be further filtered by isolating sensor-triggered video recording based on either Sensor or Channel number.

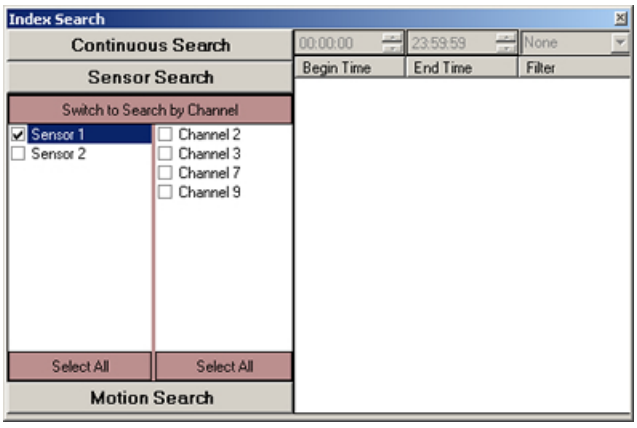


By Sensor Number

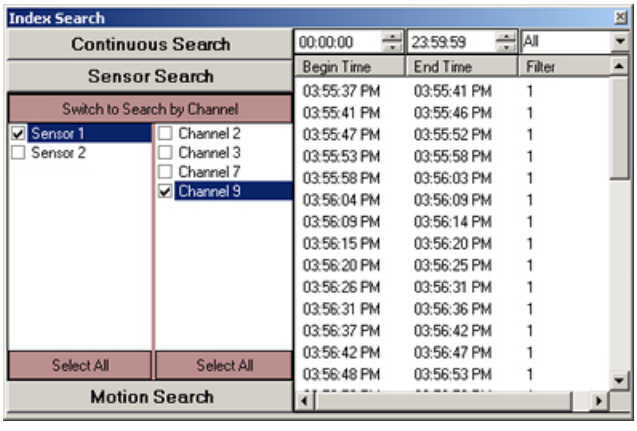
a. The first column will display all the sensors triggered. In this example, Sensors 1 and 2 were triggered.



b. Select any sensor to further filter the recorded video data and to display only those channels that recorded based on Sensor 1 activation. In this example, channels 2,3,7 and 9 recorded when Sensor 1 was triggered.



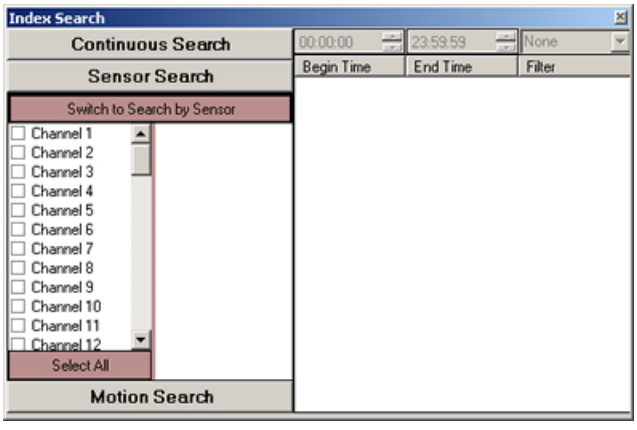
c. Select any channel to view more details about the sensor-triggered video recording: Begin Time, End Time and Filter, where Filter value is the Sensor number.



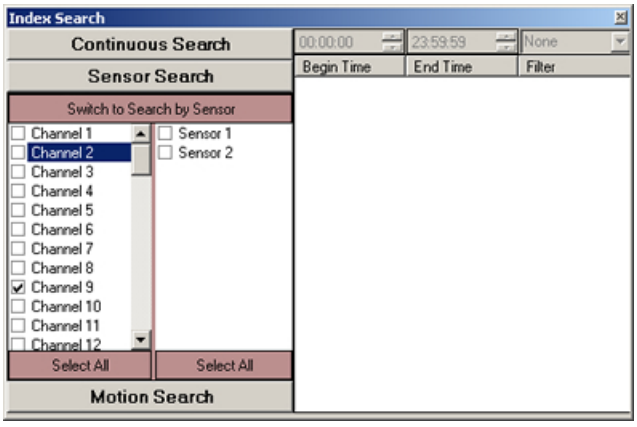
d. To view a specific instance, click the desired entry on the right-most panel in the index search window. The selected instance will be displayed in the search timeline bar.

By Channel Number

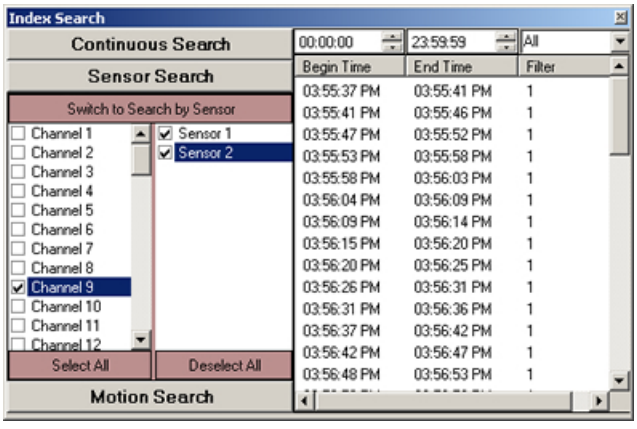
a. Click **Switch to Search by Channel**. Now the left column displays all the video channels that recorded based on triggered sensors. In this example, Channels 1-12 were recording.



b. Select desired channel(s) to show which sensor(s) triggered the video recording for the selected channel(s). In this example, Channel 9 was recording based on Sensor 1 and Sensor 2 activation.



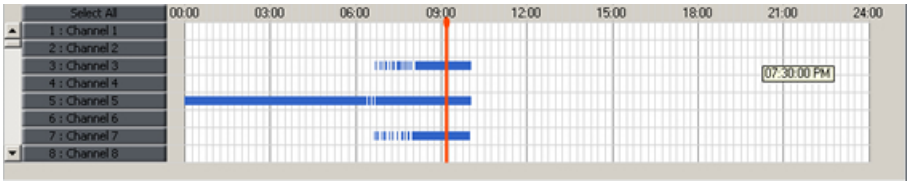
c. Select any sensor to view more details about sensor-triggered video recording: Begin Time, End Time and Filter, where Filter value is the Sensor number). In this example, Sensors 1 and 2 were selected.



d. To view a specific instance, click the desired entry on the right-most panel in the index search window. The selected instance will be displayed in the search timeline bar.

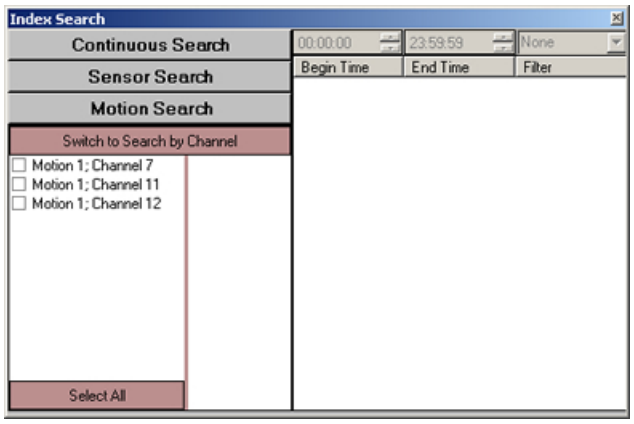
1.5.10.1.3. Motion Index Search

Select **Motion Search** to view all video recorded based on motion detection. This information can be further filtered by isolating motion-triggered video recording based on either Channel or Motion Detection area number.

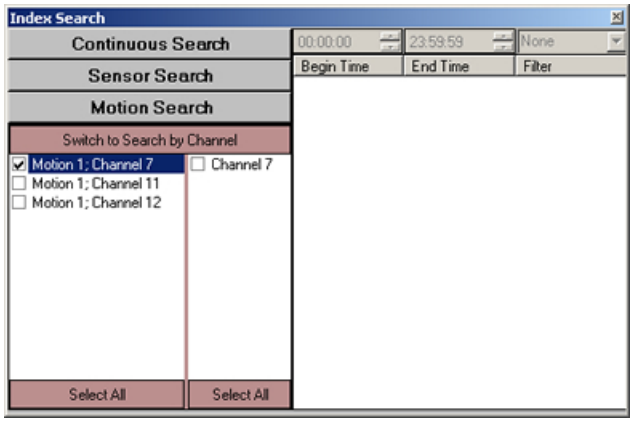


By Motion Detection Area number:

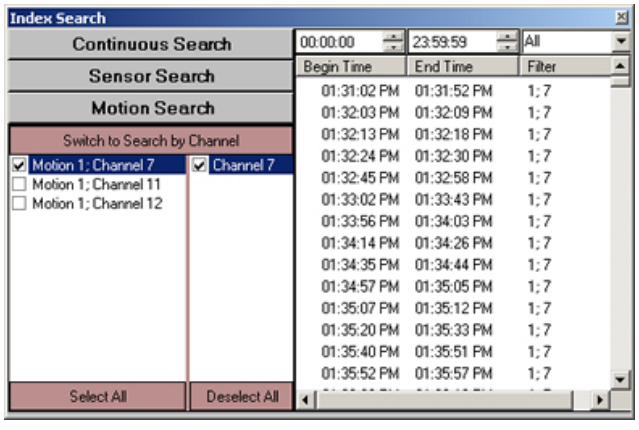
1. The first column will display all motion areas associated with specific channels, where motion was detected. In this example, motion was detected in motion detection Area 1 of Channels 7,11 and 12. See Motion Setup section for more information.



2. Select any motion area to view the associated video channel



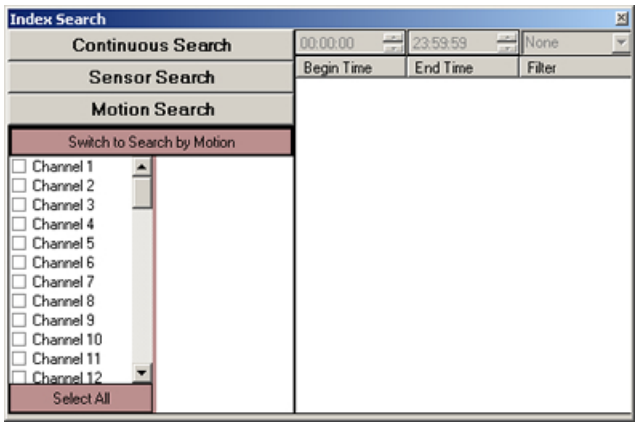
3. Select any channel to view more details about motion-triggered video recording: Begin Time, End Time and Filter, where Filter value is the Motion detection area number.



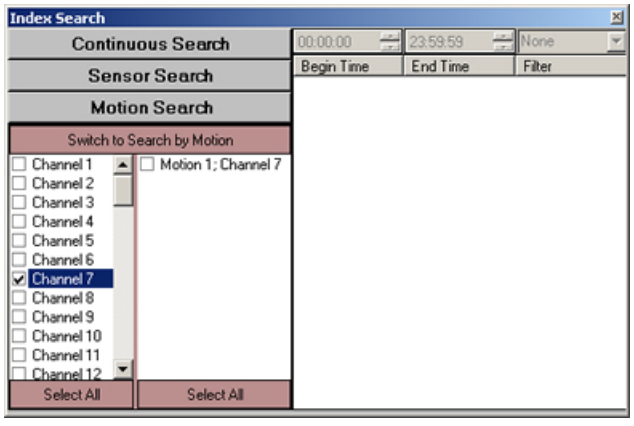
4. To view a specific instance, click the desired entry on the right-most panel in the index search window. The selected instance will be displayed in the search timeline bar.

By Channel number:

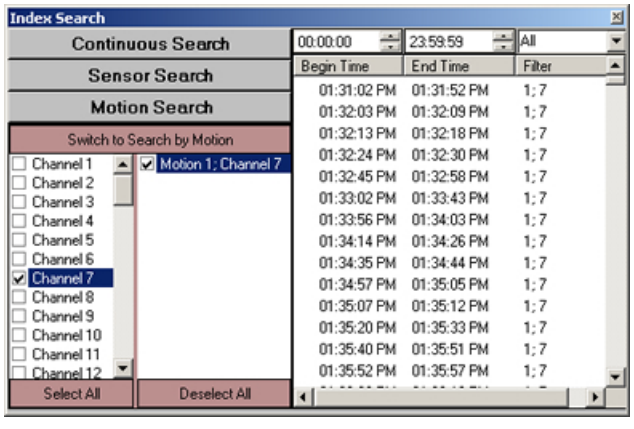
1. Click **Switch to Search by Channel**. Now the left column displays all the video channels that recorded based on detected motion. In this example, Channels 1-12 were recording.



2. Select any channel to view the triggered motion detection areas associated with selected channel.



3. Select motion detection area to view more details about motion-triggered video recording: Begin Time, End Time and Filter, where Filter value is the Motion detection area number.



4. To view a specific instance, click the desired entry on the right-most panel in the index search window. The selected instance will be displayed in the search timeline bar.

1.5.10.2. Object Search

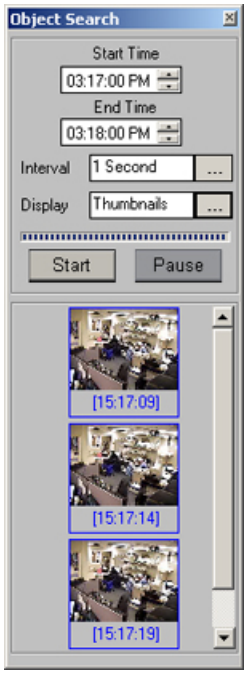
Note
An Object Search can only be performed within one calendar day on one channel at-a-time.

The Object Search function allows searching for a change in the highlighted area.

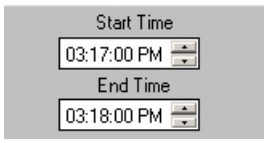
To use Object Search, do the following:

1. Selected the desired day of video recording in the calendar window
2. Choose the channel in the **Channel Activation Button** bar for an Object Search
3. Double-click the video image of the channel, to display selected channel in full-screen mode
4. Click the **Object Search** button

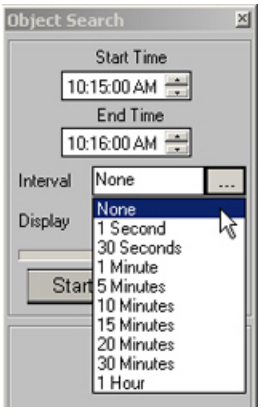
in the Advanced Search panel. **Object Search** window will be displayed over the SRX-Pro Control Center:



5. Define the detection area:
   a. Place the cursor over the start point on the live view window
   b. Hold the left mouse button down and drag to create a rectangular area
   c. Let the mouse button go
   d. Move/adjust the area if necessary. A maximum of 8 detection areas can be drawn.
   e. To delete a specific detection area, select the area by clicking on it, hold down the left mouse button and drag the area to remove it from the live view screen.
6. Set the **Start Time** and the **End Time**. Only the selected part of the video recording will be processed by Object Search. Remember that the Start/End time pertain to the day selected in the calendar window.

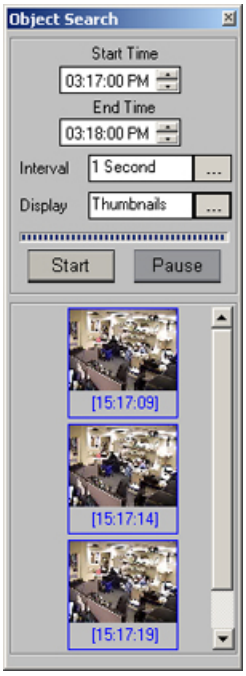


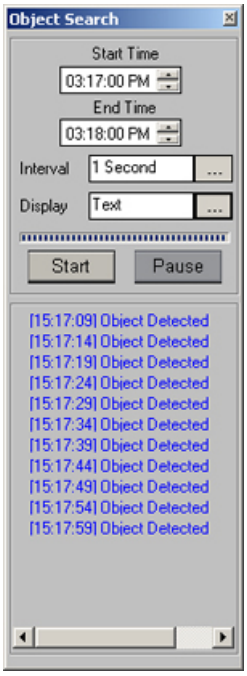
7. Set the **Interval**. Available intervals: **None, 1 second, 30 seconds, 1 minute**, **5 minutes**, **10 minutes**, **15 minutes**, **20 minutes**, **30 minutes**, **1 hour**. The Object Search will be conducted based on the selected time interval. E.g. If 30 seconds interval is selected, Object Search will search for motion every 30 seconds within the set time frame. This means that provided video has been recorded at 30 frames-per-second, only one out of 900 frames will be checked for motion (30 seconds x 30 frames). If None is selected, every frame will be checked.



8. Select the **Display** between Thumbnails and Text.

   In both cases, the motion detection instance will have the time stamp displayed. To view the instance in the display screen, left click either the image thumbnail (example on the left) or the text line (example on the right).





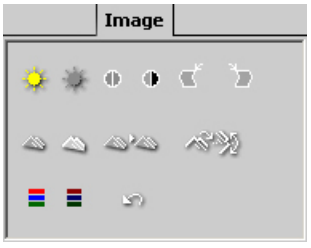
9. Click **Start** in the **Object Search** window to start.

10. In the **Object Search** window, browse through the found instances.

11. Click the **Object Search** button again to hide Object Search window in the Advanced Search panel or click the **Close** button (x) in the top right corner of the Object Search window to close it.

1.5.11. Image Settings Panel

The Image Settings panel is for editing still images. The edited image can then be printed or saved to a local or remote media.



To enable the Image Settings panel, do the following:

1. Select the channel
2. Set the start time by clicking directly on the timeline
3. Start the playback
4. Stop the playback at the exact frame
5. Click the desired channel to show it separately in the display window. The Image Setting panel will now be enabled.

Brightness. Click the right (left) icon to increase (decrease) image brightness.

Contrast. Click the right (left) icon to increase (decrease) image contrast.

Sharpness. Click the right (left) icon to increase (decrease) image sharpness.

Noise Reduction. Click the icon to reduce the noise in the image.

Deskew. Images may sometimes be off-centered by a few degrees. The Deskew option is used to correct such skews. Click the right (left) icon to rotate the image clockwise (counterclockwise).

Gamma correction. Click the right (left) icon to decrease (increase) the gamma correction input. This is done in order to display the image colors correctly by customizing the gamma correction for the monitor output. The lower the gamma correction input the lighter the image.

Rotation. Click the icon to rotate the image clockwise by 90º and to flip it vertically or horizontally.

Undo. Click the icon to undo all the changes and to return to the original image.

1.6. Backup on SRX-Pro Server

SRX-Pro allows the user to backup data from the DVR's hard drive(s) to any local/removable drive or to a CD-R/DVD-R in AVI or i³ Encrypted format. The backup files can be later opened from the Advanced Data Manager, while CD-R/DVD-R encrypted backups can be opened with SRX-Pro Player.

Four types of backup are available on the SRX-Pro Server:

- Quick CD Backup (Live and Search modes)

  Quick CD Backup can be initiated in either Live mode or Search mode, and then must be completed in the Backup window.

- Manual Backup (Backup window)

  Manual Backup can be created and completed in the Backup window.

- Panic/Sensor Backup (Setup mode)

  Panic/Sensor Backup is configured in the Server Setup menu and is activated by either Panic button located on the main screen or by assigned sensor being triggered.

- Scheduled Backup

  Scheduled Backup is accessible via main Menu toolbar.

Find out more about each type of backup by reading corresponding sections.

1.6.1. Differences between AVI and Encrypted video formats

AVI video format: allows saving multiple cameras at a time, however, each video channel is saved in a separate file. During playback, the files will be opened with any Windows media player – one-at-a-time. This type of video backup does not require any additional software and can be opened on any PC that operates on Windows O/S.

AVI backup allows adding embedded text caption to the video clip with such information as Channel number, Date/Time, Server ID, Frame number or Custom Text. AVI backups are less time-efficient: it will on average take over 4 minutes to back up a 10-minute video clip from 1 camera in AVI format. It will take less than 10 seconds to back up the same clip in the Encrypted (i3dvr Compression) format.

AVI backup may take up to twenty (20) times more space on disk than encrypted backup.

AVI backup files can potentially be edited with video editing software readily available on the market.

Encrypted (i³ Compression) video format: allows saving multiple cameras in a single backup file. This is a system's default backup video format. The saved encrypted backup file can be opened in SRX-Pro Server or SRX-Pro Remote (Advanced Data Manager) or with SRX-Pro Player (version 1.400.16 and up). All saved cameras will be played back at the same time in the selected screen division.

Encrypted backups are very time-efficient. It will take less than a minute to back up a 1-hour video clip onto local hard drive, 3 minutes if backing up onto a CD-R/DVD-R.

Unlike AVI video backups, encrypted video backups are impossible to edit.

Encrypted backup may take up to twenty (20) times less space on disk than AVI backup.

In addition, the length of a backup process for both video formats depends on several factors: backup destination (hard drive or CD-R/DVD-R), length of the backup clip, number of selected channels, video resolution and frame rate.

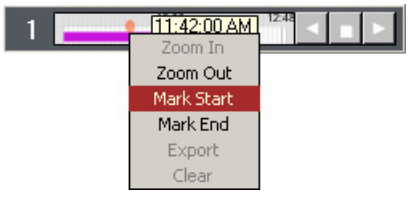
1.6.2. Quick Backup on Live Mode

Caution
i³ recommends using CD-R/DVD-R media.

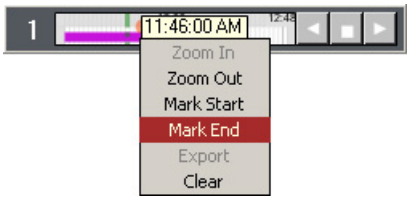
Quick Backup allows saving a portion of the video recording from the current calendar day to a CD-R/DVD-R in Encrypted format. To backup video data from previous calendar days, please use Quick Backup function in the Search mode.

To perform a quick CD backup on Live Mode, do the following:

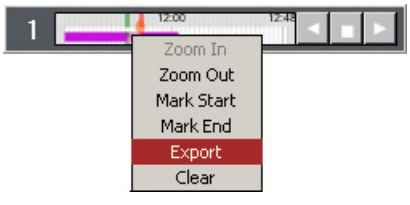
1. Right-click on the desired camera in the Live Mode
2. Select **Search Mode** in the context menu
3. Position the mouse cursor over the desired start time on the timeline
4. Right-click on the timeline and select **Mark Start** in the context menu. In the example below, the start time is 11:42:00 AM. The start time will be marked with the broken green line.



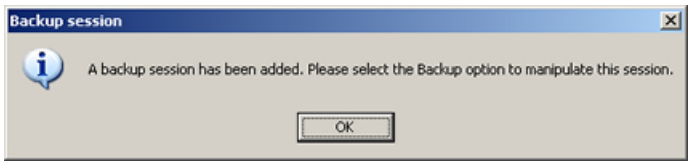
5. Position the mouse cursor over the desired end time.
6. Right-click on the timeline and select **Mark End** in the context menu. In the example below, the end time is 11:46:00 AM. The end time will be marked with the broken red line.



7. Right-click on the timeline and select **Export** in the context menu to proceed with the backup. To clear the Start and End Times for quick backup, select **Clear** in the context menu.



8. The following message window will appear. Click **OK** to close it. The backup session has now been saved to the backup queue list. See Completing Backup section for more information.



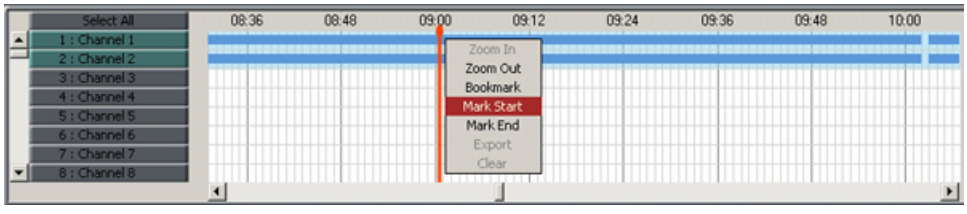
1.6.3. Quick Backup in Search Mode

Caution
i³ recommends using CD-R/DVD-R media.

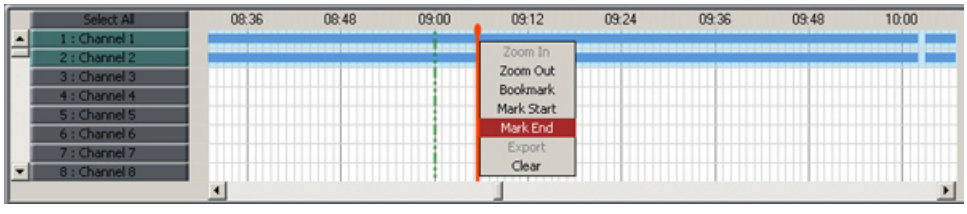
Quick Backup allows saving a portion of the video recording from any calendar day to a CD-R/DVD-R in Encrypted format.

To perform a quick CD backup in Search Mode, do the following:

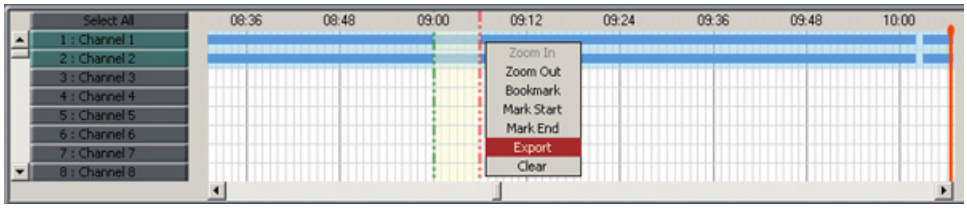
1. Ensure that there is enough free space on the D drive - at least 650 MB should be available. If no drive/partition D is present, drive C will be used.
2. Click the **Search** button to access the Search mode .
3. Select one or more channels by clicking on appropriate channel selection buttons.
4. Set the start time in the Calendar window or by clicking directly on the timeline.
5. Right-click inside the 24-hour timeline. The context menu will appear. Select **Mark Start** to choose the start time. Start time on the timeline will be marked with the broken green line.



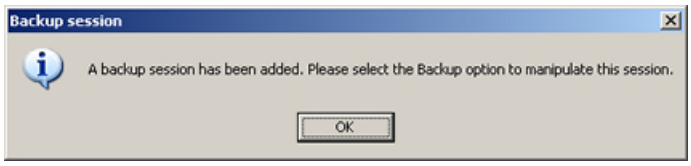
6. Right-click inside the 24-hour timeline, where the backup recording should end. The context menu will appear. Select **Mark End** to choose the end time. End time on the timeline will be marked with the broken red line and the video segment between Start and End time lines will be grayed out.



7. Right-click on the highlighted video segment. The context menu will appear. Select **Export** to save the backup session to the Backup menu.



8. The following message window will appear. Click **OK** to close it. The backup session has now been saved to the backup list. See Completing Backup section for more information.



1.6.4. Backup Window

Backup window is a central location where all quick backup sessions are stored in a backup queue list pending the user action. The saved backup clips may be previewed, edited, deleted or finalized. Brand new backup sessions can be created from scratch and added to the queue.

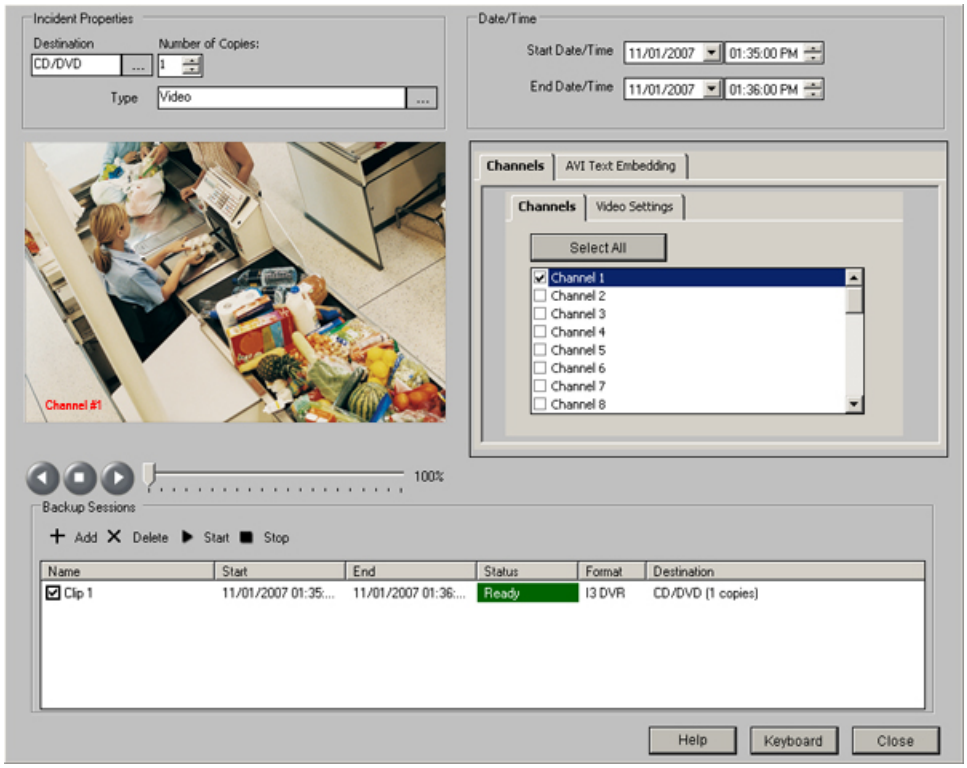
To access the Backup window, do the following:

1. Select Backup in the Tools menu (if on Live Mode)

   OR

   Click Backup button in the Tools panel (if in Search Mode)

2. A new window will appear:



Tip
To perform any action, the clip has to be checked off in the list.

Important
To save any changes to the selected backup clip, click Update in the bottom of the window.

The following backup parameters may be edited for each backup clip:

1. Destination: CD/DVD (*default for Quick CD Backup*); Local Storage (local/network/removable drive, USB); Email
2. Start and End Date/Time
3. Channels
4. Format: AVI; Encrypted (*default for Quick CD Backup*)
5. AVI Embedded Text (applies to AVI backups only)

+ Add	Add a new backup session. Adds a new backup clip based on the configured Start and End Date/Time.
✕ Delete	Delete selected backup session(s).
▶ Start	Start creating a new backup file. Starts the backup for the selected backup clips.
■ Stop	Stop creating a complete backup file. Interrupts the backup session already in progress.

1.6.4.1. Completing Quick Backup Session

All quick CD backup sessions will be saved in the Backup window's queue until completed by the user. Note that by default, all Quick backup sessions are saved in **i3DVR Compression encrypted format**. To change format, go to Channels -> Video Settings tab.

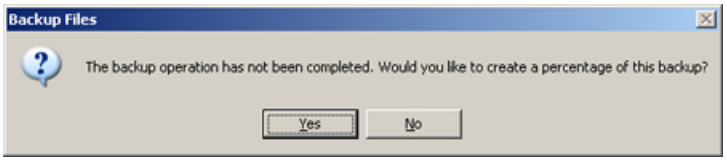
In order to proceed with the CD-R/DVD-R backup, do the following:

1. Insert the CD-R/DVD-R into the combo drive
2. Check off all backup clips that will be saved onto the CD-R/DVD-R
3. Click the Start button ▶ Start
4. Wait until the status changes from **Ready** to **Finished** for all selected (checked off) clips
5. Remove CD-R/DVD-R from the optical drive

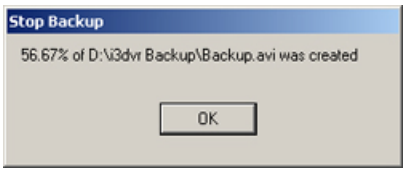
1.6.4.2. Interrupting Video Backup Session In Progress

If the backup session is taking too long, or the adjustments must be made to the backup session in progress, it is possible to interrupt the backup session. To stop the active backup session, check off the desired session in the list and click the **Stop** button ■ Stop.

The following warning window will be displayed.



Click **Yes** to save the completed percentage of the backup session. When **Yes** is clicked, the video backup that has been created before termination will be saved as a separate file.



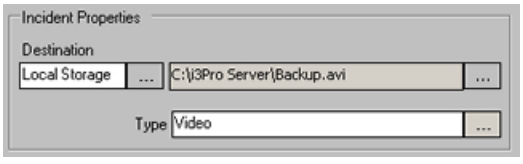
When **No** is clicked, no backup files will be created.

1.6.4.3. Creating New Video Backup Session (Manual Backup)

New backup sessions can be created directly from the Backup window.

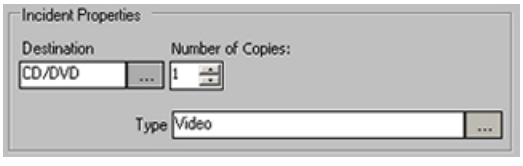
To create a brand new backup session, do the following:

1. Set the video backup start date and time from the **Start Date/Time** menu
2. Set the video backup end date and time from the **End Date/Time** menu
3. Select video channels to back up. Click the **Channels -> Channels** tab and double-click on the corresponding checkboxes or click **Select All** to select all available video channels. Only the video data from selected video channels will be backed up.
4. Choose the backup video format. Click the **Channels -> Video Settings** tab to choose the backup video format from i3dvr Compression (default) and AVI. Encrypted backup does not require any additional settings, while AVI backup may be further customized. See AVI Backup Configurations section for more information.
5. Configure the backup destination. Click the **Browse** button [...] in the **Destination** field to set the backup destination to Local Storage, CD/DVD or Email.
   a. **Saving to the local storage.** The recording will be saved to the selected local/network/removable drive.



      i. Click the **Browse** button [...] in the destination path to select the local/network/removable drive
      ii. Locate the desired drive and folder on the chosen drive
      iii. Enter the backup file name
      iv. Click **Save**

   b. **Saving to CD/DVD**. The recording will be saved to the CD/DVD.
      i. Select **CD/DVD** to save the video recording to a CD/DVD drive



Tip
Make sure there is recorded video data in the selected time period.

Tip
Only channels activated in the Hardware Setup tab will be displayed.

Tip
Read about the differences between AVI and Encrypted video formats to decide on backup format.

ii. Set the **Number of Copies**

Note that an SRX-Pro Player will be added to your encrypted backup and the autorun feature will be added to your CD/DVD media. See SRX-Pro Player section for more information.

c. **Sending to Email**. The recording will be sent to an email address.

i. Select **E-Mail** to send the video recording to an email address

ii. The **E-Mail Address** of recipient is loaded from the Email Address in the Send To section in Email setup tab

> **Note**
> Since a typical provider limits the size of incoming email messages, Email backup is allowed for 1 channel at-a-time only. The length of the backup recording is set, by default, to 1 minute. For feature to work, the Email setup tab must be correctly configured.

6. Click the **Add** button to add created backup clip to the list of Backup Sessions. + Add

7. To complete the backup session, check off the checkbox(es) for the desired backup clip(s) and click the Start button. ▶ Start

8. To terminate an active backup session before completion, check off the checkbox(es) for the desired backup clip(s) and click the **Stop** button. ■ Stop

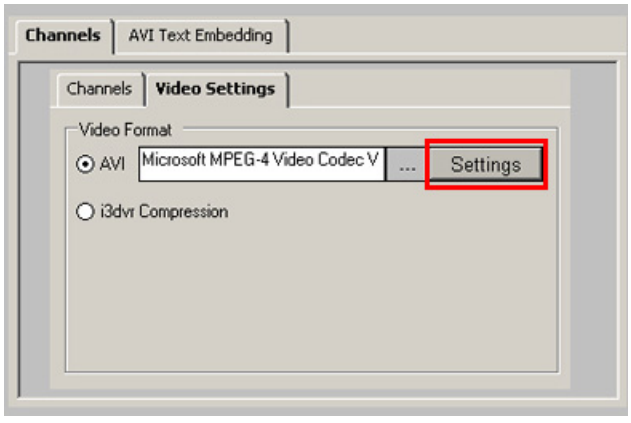
9. To delete the backup session from the list, check off the checkbox(es) for the desired backup clip(s) and click the **Delete** button. ✕ Delete

1.6.4.3.1. AVI Backup Configurations

The instructions below apply to AVI backup files only. This section demonstrates how to customize the embedded text and change compression ratio of the AVI backup. To leave default configurations, skip these instructions.

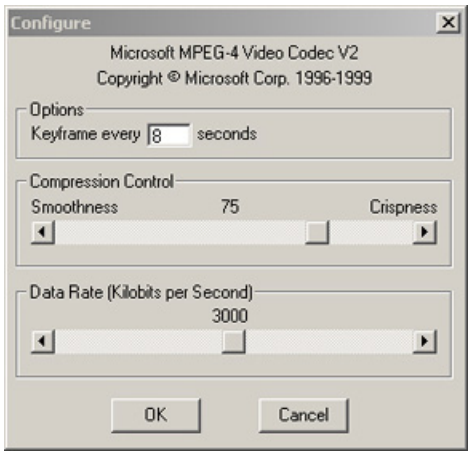
After selecting AVI video format in Video Settings tab, do the following:

1. Configure AVI quality ratio by clicking **Settings**



2. Use the slider to configure the AVI compression ratio. By default the AVI compression (Temporal Quality Ratio) it is set to 75%. To improve the end quality of the AVI video clip, drag the slider to the right; to reduce the quality and the size of the AVI video clip, drag the slider to the left.

   User may also configure the frequency of the keyframes in the AVI file. Default value is set to 1 keyframe every 8 seconds.



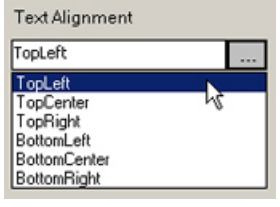
3. Click the **AVI Text Embedding** tab to add custom text to the AVI video clip (optional). Skip this step if no text caption is needed.

   This function allows embedding the information about the video clip in form of a text overlay. Important information such as Server ID, Channel number, Time, and Frame number can be added to the backup clip.

   Note that no information about the AVI files is embedded by default, which means unless Text Embedding feature is used, there is no way of determining which video channel or which date/time the backup was recorded from after the backup has already been completed.

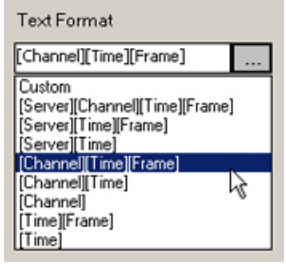
4. Check off the **Embed Text** checkbox

5. Select the AVI text caption alignment from the list. The selection will determine the location of the caption text overlay on the AVI video clip.

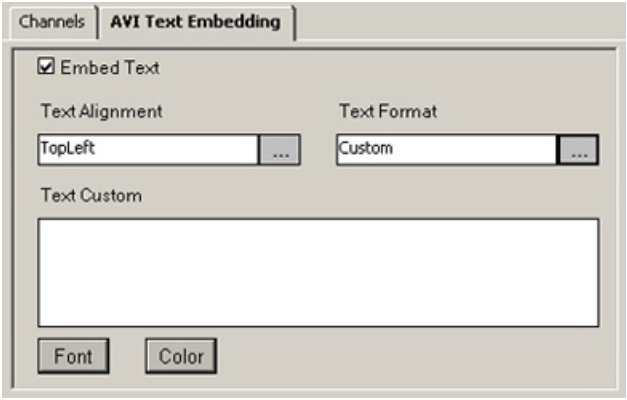


6. Select the desired caption **Text Format** from the list. The selected caption will be overlaid on the AVI video.

   E.g. If **[Channel][Time]** entry is selected, the embedded text will look as follows: **[Channel: 1][Time: 10/19/09 09:29:40]**



7. To enter custom text, select **Custom** in the **Text Format** list and enter custom text in the field below.



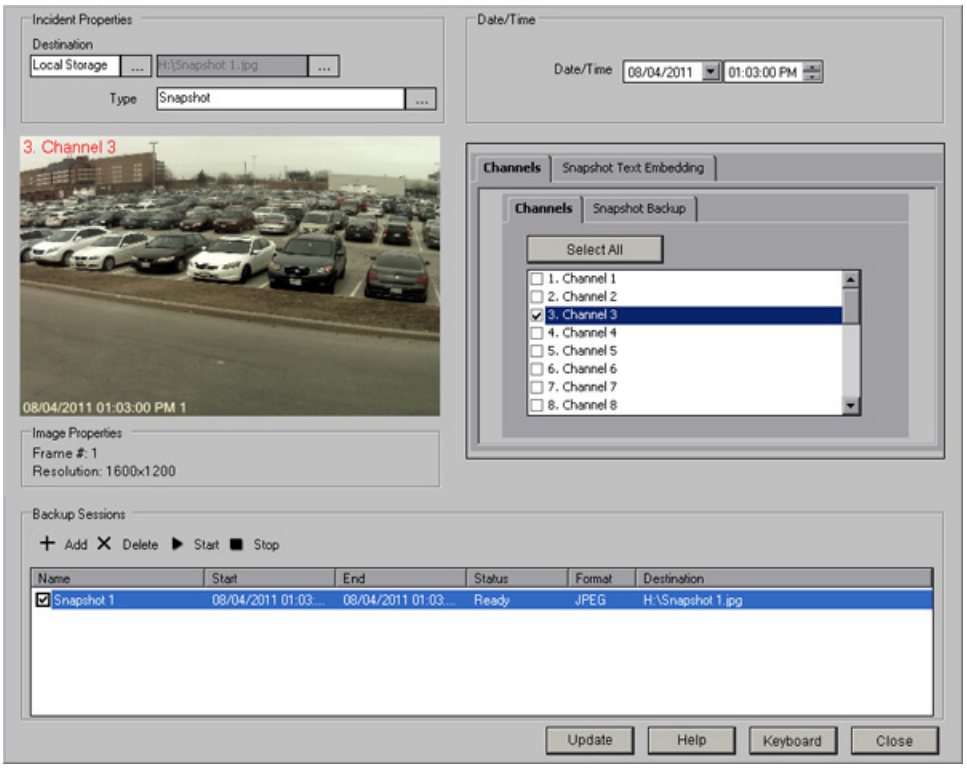
8. Click **Font** and/or **Color** to format custom text.

1.6.5. Snapshot Backup

Snapshot backup allows the user to save a single frame as a still image on any local drive in both *.bmp and *.JPEG formats

To perform snapshot backup, do the following:

1. In the Search mode, select the camera for playback.
2. Double-click on the selected camera to display it in the full-screen mode in the live view screen.
3. Click the **Play** button on the Playback Control panel.
4. Click the **Stop** button on the Playback Control panel to stop playback at the desired frame.
5. Click the **Backup** button in the Tools panel . The following screen will be displayed.



Tip

The authenticity of each saved snapshot can be verified with i³ WaterMark checker. See the i³ Watermark Tool section for more information.

User may save several snapshots to their chosen local or removable media. The backup process is very similar to the Video Backup.

In the Backup window, the user can:

1. **Change the file name and backup destination folder.**

   To change the file name, click the **Browse** button ... in the **File Name** field. Select the destination folder and enter the desired file name.

2. **Change the snapshot format.**

   To change the snapshot format, click **Browse** button ... in the **Image Format** field. Choose BMP or JPEG format in the drop-down menu.

3. **Change image quality.**

   To change the image quality, adjust the **Image Quality** slider.

4. Create embedded text in **Snapshot Text Embedding** tab if desired.

   See AVI Backup Configurations section for more details.

5. **Save the snapshot(s) to the chosen destination.**

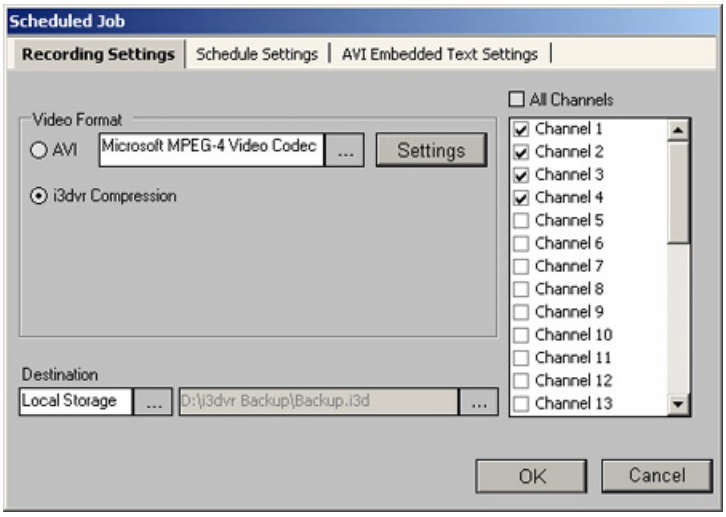
   To complete the backup session, check off the checkbox(es) for the desired snapshot(s) and click the Start button. ▶ Start

1.6.6. Scheduled Backup

Scheduled backup allows creating a schedule for a video recording.

1. Go to **Tools -> Scheduled Backup** menu. Scheduled Backup window will be displayed.

   a. Click the **Add** button + Add to created a new scheduled backup session. Schedule Job window will be displayed.



2. In the **Recording Settings** tab, select the backup type in the Video Format frame between **AVI** and **i3DVR Compression**. If scheduling AVI backup, click Setting for mode AVI codec settings.

3. For AVI backup file, configure **AVI Embedded Text Settings** tab

4. In the **Recording Settings** tab, select channel(s) for scheduled backup. Only selected channels will be backed up.

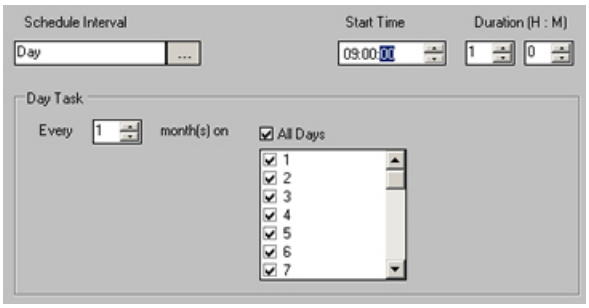
5. In the **Recording Settings** tab, select the destination for the scheduled backup.

6. In the Schedule Settings tab, select the **Schedule Interval**

   a. **Once**

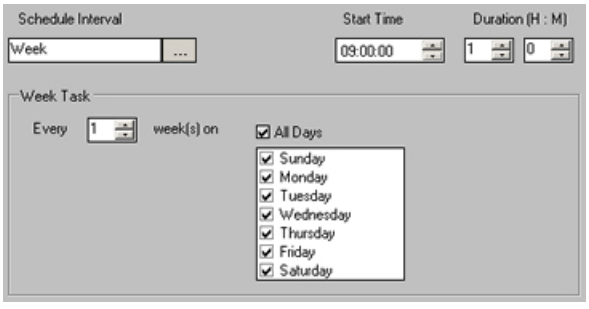
   It will backup the data only once at the time selected on the Start Date, Start Time and for the Duration specified. (H:M)

   b. **Day**



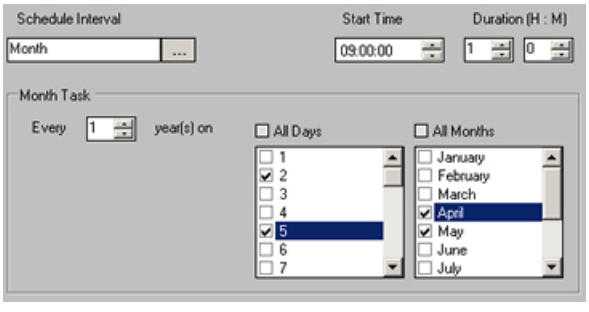
Set **Start Time** and **Duration(H:M)**. Select a specific day or check off **All Days**. It will repeat the scheduled backup on the desired days for the selected number of months.

c. **Week**



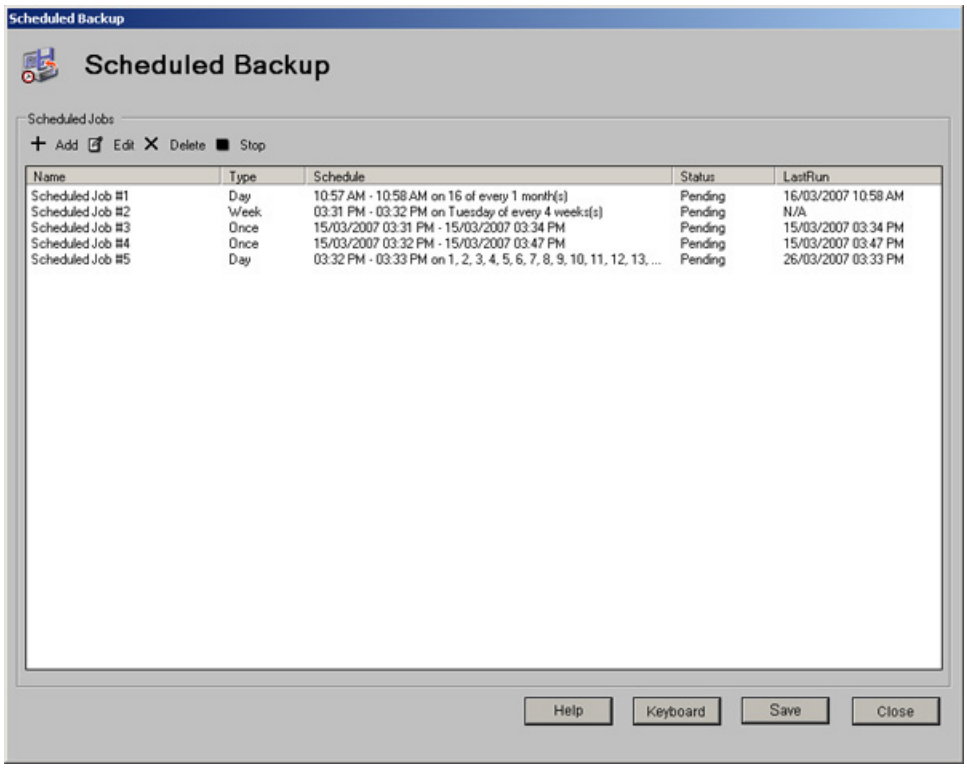
Set **Start Time** and **Duration(H:M)**. Select the day or check off **All Days**. It will repeat the scheduled backup on desired day(s) every selected number of weeks.

d. **Month**



Set **Start Time** and **Duration(H:M)**. Select the day(s) in month(s) or check off **All Days** or **All Months** . It will repeat the scheduled backup for the desired day(s) for the selected month(s) of the year.

7. Click **OK** to add these scheduled backup settings or **Cancel** to ignore them. The added schedule will be displayed in the available scheduled jobs:



Add — Add a new scheduled backup session.

Edit — Edit selected scheduled backup session.

Delete — Delete existing scheduled backup session.

Stop — Terminate active scheduled backup session. Interrupts the scheduled backup session already in progress. Saves the created percentage of the backup.

2 SRX-Pro Remote

Topics Covered

- Installing SRX-Pro Remote
- SRX-Pro Remote Setup
- Managing Remote Sites
- SRX-Pro Server Setup (via Remote)
- Viewing Video Channels via Remote
- Search on SRX-Pro Remote

The SRX-Pro Remote software is used to connect to and manage multiple servers by using the local LAN connection. The managers can easily view the channels in the remote location, search the recording database or access the PACDM™ database. Most of the features provided in SRX-Pro Server are available in SRX-Pro Remote, though these software products are not identical. The main difference between two applications is the fact that SRX-Pro Remote allows viewing video recording from more than one VMS.

Warning
The SRX-Pro Remote version MUST match the SRX-Pro Server version.

Before installing the SRX-Pro Remote software onto your PC, make sure the following minimum hardware/software requirements are met:

- **CPU:** Celeron or Pentium, 2.4 Ghz or better
- **RAM:** 1GB minimum
- **Video card:** 64MB AGP
- **OS:** Windows 2000, Windows XP, or Windows Vista
- 1024x768 screen resolution
- 32 bit color; minimum
- 1.5 GB Free Hard Drive space minimum
- High speed Internet
- Windows .NET Frame 3.0 (available on the software installation CD)
- Microsoft Visual C++ 2005 SP1 Redistributable Package (x86) (available on the software installation CD)
- **Nero:** Nero 6.6.1.15 must be installed on the system to support all backup features

SRX-Pro Server and Remote software relies on Nero 6.6.1.15 software to perform all backup functions, therefore the supported Nero version must be installed onto your computer.

Warning

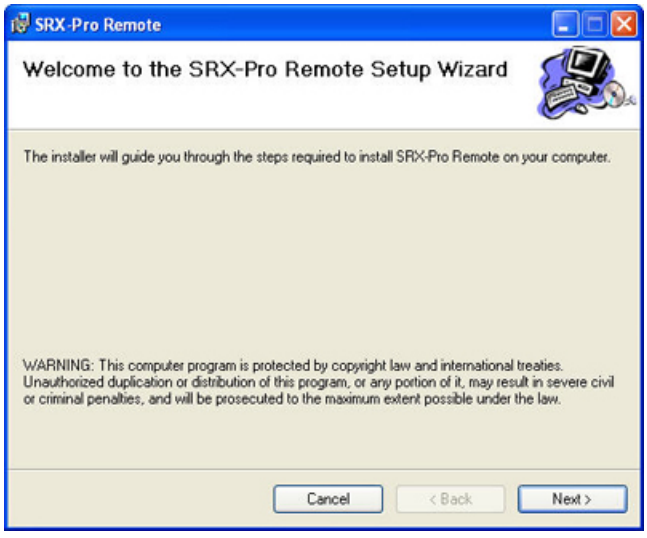
Nero 7 and Nero 8 are not supported by SRX-Pro software at this time.

Provided the required Nero software version has not been previously installed on your computer, you must install Nero 6.6.1.15 software before using SRX-Pro Server and/or Remote.

2.1. Installing SRX-Pro Remote

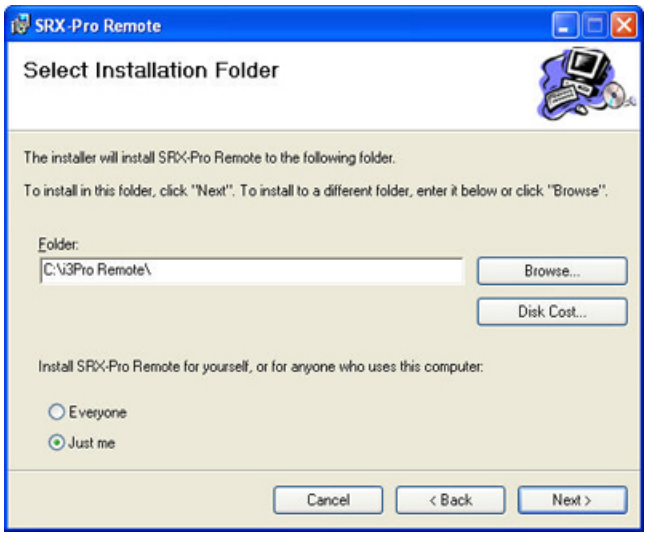
In order to install SRX-Pro Remote software application onto your local computer, you must have the SRX-Pro Remote software installation CD. As an alternative, you may be able to download the software installation package from our FTP site. If you do not have an SRX-Pro Remote installation CD/installation file, please contact your dealer for help.

1. To install SRX-Pro Remote software, insert the installation CD into the optical drive or double-click the **Setup.exe** file located inside the installation package folder. The installation screen will be displayed. Click **Next** to proceed with the installation.

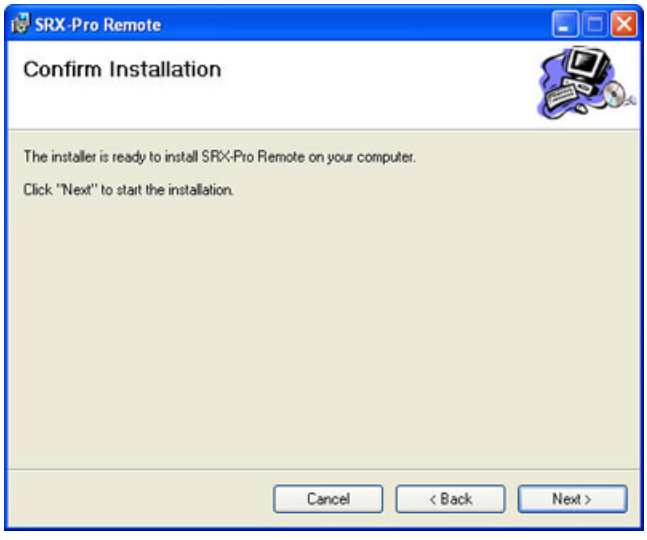


2. Read the i³ Software License agreement (scroll to read the entire document). Then select **I Agree** radio button and click **Next** to proceed.

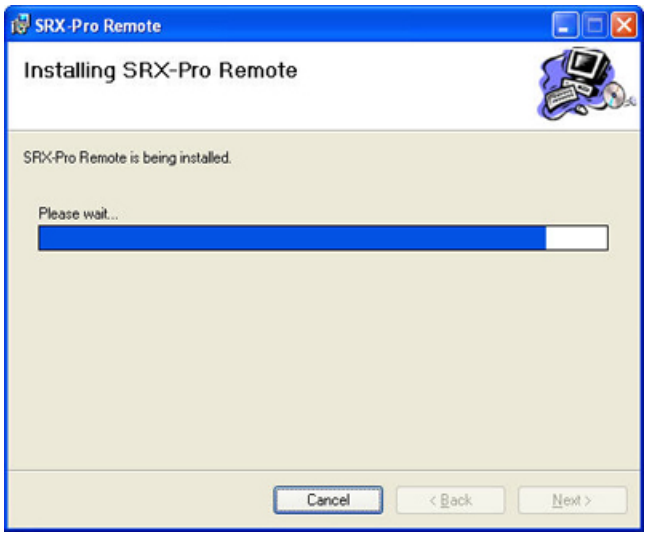
3. Select the software installation folder by clicking Browse or leave the default installation folder. Select **Everyone** or **Just me** radio button to specify who will have access to SRX-Pro Remote application (if you have multiple users on your PC).



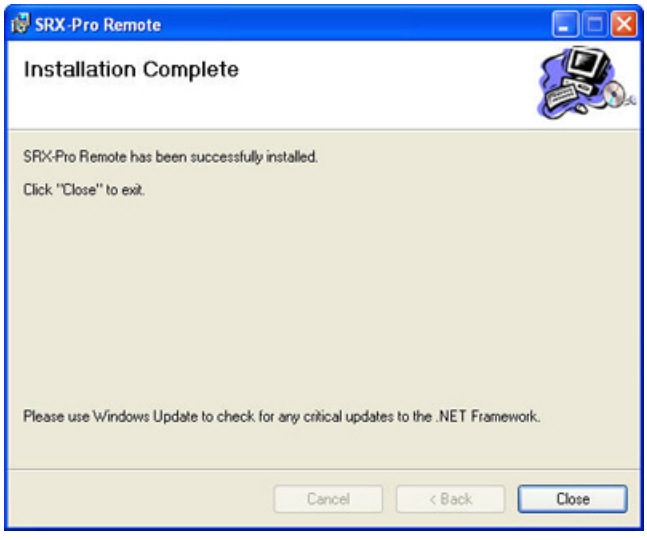
4. Click **Next** in the Confirm Installation window to proceed with the software installation.



5. Wait while the software is installing on the PC.

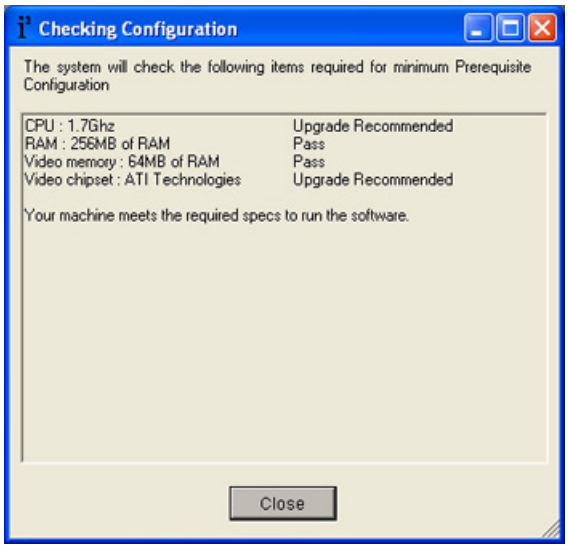


6. Wait for the Installation Complete window to be displayed. Click **Close** to complete the installation.



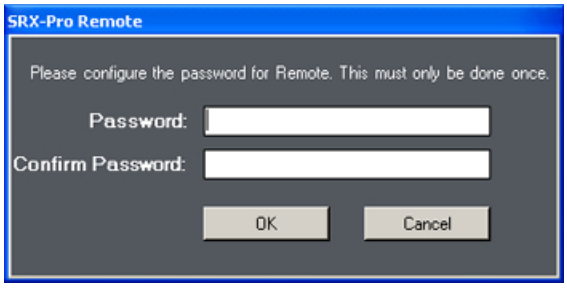
7. On the Desktop, double-click the SRX-Pro Remote icon. SRX-Pro Remote

   Minimum requirement check will run and a report will be displayed notifying the user whether the current system has sufficient resources to run SRX-Pro Remote.



8. The splash screen will be displayed. Wait until the software loads and the software main screen is displayed.

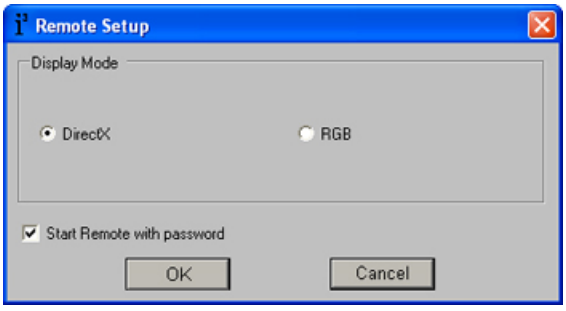
9. On first program startup, the Password window will be displayed. This step requires the user to configure the SRX-Pro Remote password and must only be done once. By default, the password will be requested on every SRX-Pro Remote startup. The authorization step may be disabled in the SRX-Pro Remote Setup. To change password, restart the SRX-Pro Remote.



2.2. SRX-Pro Remote Setup

Before connecting to the remote site, the user can configure the Display Mode used by SRX-Pro Remote. To access SRX-Pro Remote Setup, disconnect from all connected sites and click the **Setup** button .

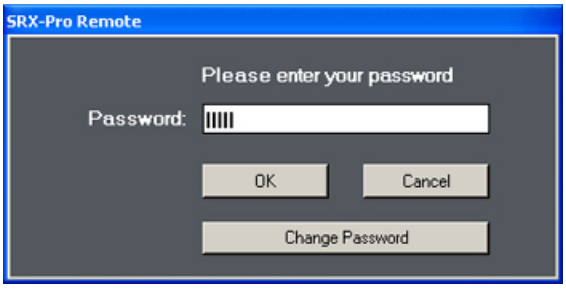
The Remote Setup window will be displayed.



Select the desired Display Mode between **DirectX** and **RGB**. DirectX is the preferred and recommended display mode as it offers substantially higher quality video image. In cases when DirectX is not installed on the system or is not available (is used by another program), select RGB display mode.

Usually, video cards with less than 64MB will not support **DirectX**.

Check the **Start Remote with password** checkbox to force the user to enter password on every SRX-Pro Remote startup. This is an effective way of preventing any unauthorized users from connecting to the remote sites. To change the password, check off **Start Remote with password** checkbox and restart the SRX-Pro Remote software. Leave unchecked to skip the authorization process.



2.3. Managing Remote Sites

2.3.1. Creating a New Connection

Caution

Ensure that the SRX-Pro Server version installed on the remote DVR matches the SRX-Pro Remote version.

Important

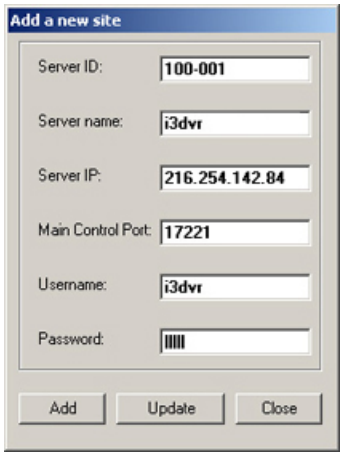
All connections added must have unique IP addresses. Servers with duplicate IP addresses will not be added.

Tip

The user may optionally update a previously added server, rather than add a completely new one.

To create a new Server connection, do the following:

1. In the SRX-Pro Control Center, click the **Add/Edit Server** icon . A new window will be displayed
2. Fill out the **Add a new site** window.



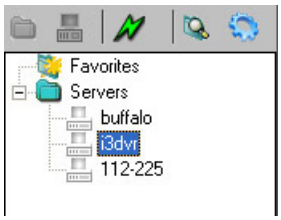
3. Enter **Server ID** – this must match the remote Server ID as entered in the Server Info Setup tab on SRX-Pro Server.
4. Enter a **Server Name** – a descriptive name for the server.
5. Enter the **Server IP** address - can be either static or DDNS (Dynamic Domain Name System). Obtain this information from Server Info Setup tab on SRX-Pro Server.

   SRX-Pro Remote software supports **multiple ports**, therefore if multiple DVRs are using different ports of the same IP address, enter the port number after the IP address following this format: 192.168.10.152:5001. If multiple ports are not being used, enter IP address only.

Important

Limitations: Currently in the multiple port environment only one Server can support the following functions: WebSearch, 2-way audio, text overlay, PACDM Server, Portal Card Access and UPS shutdown.

6. Enter the **Main Control Port number**. It must match the Main Control Port number in the Communication setup tab on SRX-Pro Server.
7. Enter the **User name** and **Password**. When trying to connect to the remote server, the system will check the Server ID, Server IP, User name and Password together. If either of the variables is incorrect, the Remote software will not be able to connect to the site.
8. Click **Add** to save the new connection or click Close to close the new site setup window without saving.
9. When information for the new site is completed, it will appear in the Servers list.



Disconnected Server

Connected, inactive server

Connected, active server

Note
Maximum number of remote connections accepted by SRX-Pro Server: 6

2.3.2. Editing an Existing Remote Site Connection

Important
To be able to make any changes to the remote site connection, disconnect from the server first.

To edit an existing remote site connection, do the following:

1. In the Servers list, select the desired remote site
2. Click the **Settings** icon or right-click on the selected remote site and select **Modify** option from the menu. A new window will be displayed.
3. Make necessary changes in the Add a new site window and click **Update**

2.3.3. Deleting a Remote Site

To delete a remote site from the list, do the following:

1. Select the remote site in the Servers list
2. Click the **Settings** icon or right-click on the selected remote site and select **Delete** option from the menu.
3. Click **OK** in the Delete Server window. The server will disappear from the Server list.

2.3.4. Connecting to a Remote Site

The level of access assigned to the user in the SRX-Pro Server remains the same, when logging in from SRX-Pro Remote. E.g. If the user is restricted from viewing Channel 1, they will not be able to see it via SRX-Pro Remote when they log in with their name and password.

To connect to the remote site, do the following:

1. Select the desired remote site in the Servers list (SRX-Pro Control Center)
2. Click on the **Connect to Server** button or double-click on the selected server to connect. The Connection window will be displayed.

3. If the connection is successful, the server icon will change from to or

4. Repeat steps 1-2 for all desired remote sites.

2.3.5. Activating Connected Servers

Only one connected remote server is active at each given time.

Important
Activate the server before searching/configuring setup.

To activate connected remote server, do the following:

1. Select the desired inactive remote site in the Servers list.

2. Click the **Settings** icon or right-click on the selected remote site and select **Active** from the context menu. The server icon will change from to .

3. To deactivate server, select the desired active remote site in the Servers list.

4. Click the **Settings** icon or right-click on the selected remote site and select **Inactive** from the context menu. The next connection on the list will become active.

2.3.6. Disconnecting from a Remote Site

To disconnect from the remote site, do the following:

1. Select the remote site in the Servers list.

2. Click the **Settings** icon or right-click on the selected remote site and select **Disconnect** from the context menu.

3. The server icon will change from or to .

Note
Maximum number of remote connections accepted by SRX-Pro Server: 6

2.3.7. Searching for a Remote Site

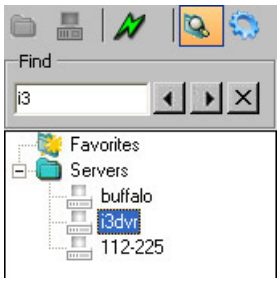
The search option allows searching the list of remote connections by title and finding a specific remote connection quickly in the long list of added remote sites.

To find a remote site by title, do the following:

1. Click the **Search** icon .

2. In the Find window, enter full or partial server name and click the Right arrow to find a server title that contains the entered text. The matching title will be highlighted in the list.

   Click the Right Arrow to find next server on the list. Click the Left Arrow to display the previous result.



3. Click the Close button (**X**) or click the **Search** icon again to close the Find window.

2.3.8. Sorting Added Remote Sites

It is possible to sort the added remote sites by: Name, Server ID, IP Address:Port.

These sorting options allow the user to navigate through a long list of added servers with ease.

To sort the added remote sites, do the following:

1. Click the **Settings** icon .
2. Select **Sort** option from the menu and select one of the three sorting options from the sub-menu: Name, Server ID, IP Address:Port
3. To remove sorting and display the servers in the order that they were added, repear Steps 1-2 and uncheck selected sorting option.

2.3.9. Organizing Added Remote Sites

Added remote site connections can be sorted into groups and subgroups.

To create a new Group, do the following:

1. Click the **New Group** icon . "New Group" folder will be added to the **Servers** root folder.
2. Repeat step 1 to add as many groups as needed. Preferred folder structure can be created by drag-and-dropping the sub-group folders inside the selected main group folder.

Tip

You may connect to all servers in the selected group/sub-group at once by selecting the group/sub-group in the list and clicking the Connect to Server button .

2.3.10. Adding Remote Channels to Favorites

For quick access to most-accessed channels, you may create a list of favorite channels from any number of remote sites.

To add a remote channel to Favorites, do the following:

1. Connect to the desired remote site.

2. Drag-and-drop selected channels into the Favorites folder in the left-hand control pane.
3. Repear steps 1-2 for all remote channels.
4. To view Favorite channels, expand the Favorites list and drop one, several, or all channels into the LIVE screen on the right. SRX-Pro Remote will automatically connect to necessary remote DVRs to display Favorite channels on the screen.

Note

You may organize Favorite channels by adding groups and sub-groups in the Favorites folder.

2.4. SRX-Pro Server Setup (via Remote)

Warning
You should always use the most recent version of SRX-Pro Remote to avoid any Server-Remote compatibility issues.

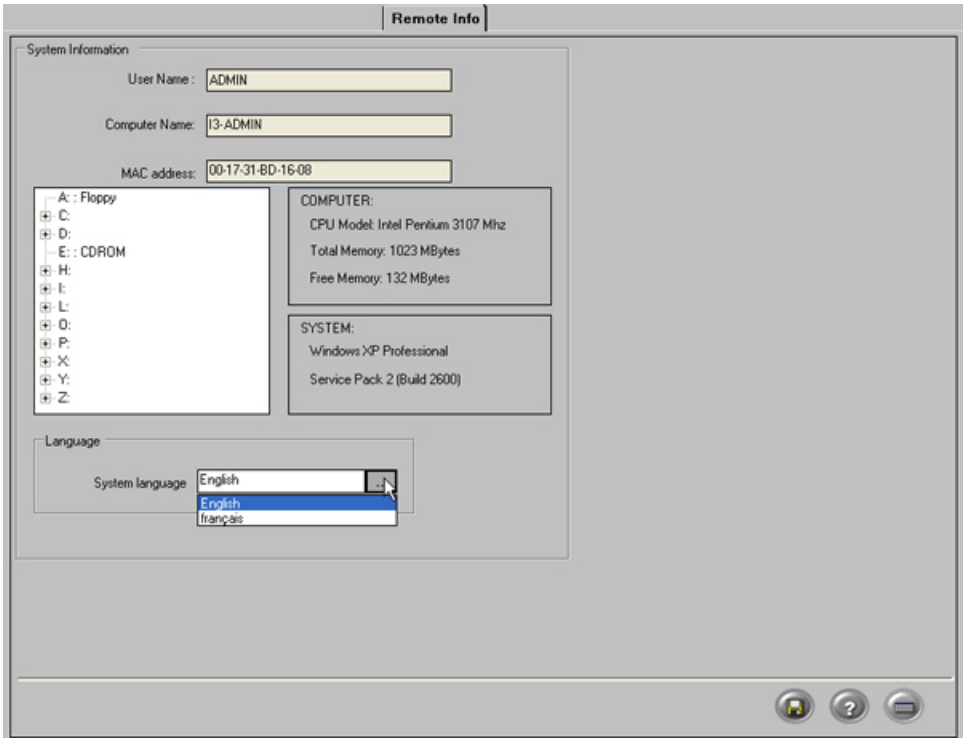
The connected user can change most setup settings according to their level of access on the active remote Server. Only allowed setup tabs and features will be accessible based on user account. Certain setup features are only accessible locally and are not supported by SRX-Pro Remote, such as editing/deleting user accounts or changing port settings.

To access the setup mode of the specific remote Server, do the following:

1. Connect to the remote Server and ensure it is active. (See Activating Connected Servers for more information)
2. Click the **Setup** button

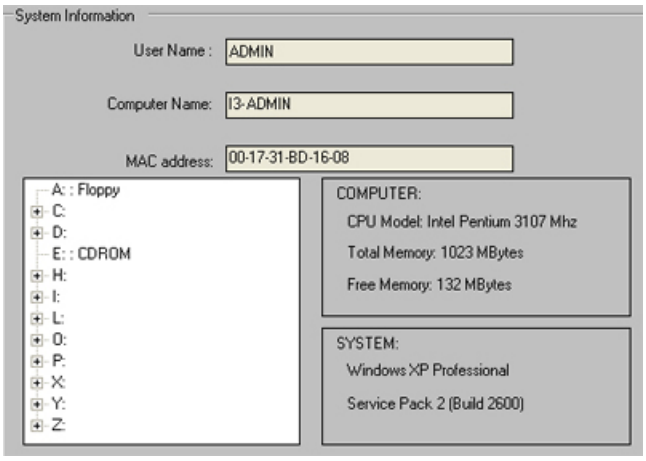
2.4.1. Remote Info Setup

The only setup tab present on SRX-Pro Remote that is not supported by SRX-Pro Server is **Remote Info** setup tab.



The Server Info Setup permits changing the SRX-Pro Remote language, as well as obtaining information about the local computer, on which the SRX-Pro Remote is installed.

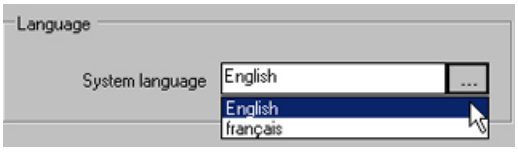
System Information:



This section displays the following:

- User Name (User currently logged into the Local Computer)
- Local Computer Name
- MAC Address of the Local Computer
- CPU Model of the Local Computer
- Windows operating system version installed on the Local Computer
- Service Pack version installed on the Local Computer
- List of drives/partitions of the Local Computer
- Total and free memory (RAM) information of the Local Computer

2.4.1.1. Language



Two languages are currently supported on the SRX-Pro Remote: English and French.

To change system language, select **English** or **Français** from the System Language drop-down menu. This will translate the SRX-Pro Remote interface into the appropriate language.

Click the **Save** button to save the configured settings.

2.5. Viewing Video Channels via Remote

With the SRX-Pro Remote application, the user can access and view multiple video channels from one or more connected remote sites. By using Drag-and-drop feature the user can select which channels from which remote servers will be displayed on their chosen screen division.

To view video channels from connected Server, do the following:

1. Expand the Channels list on the connected Server
2. Select one or more channels in the list

   To select multiple channels, press and hold **Ctrl** button on your keyboard, while selecting desired channels from the list.

   To select all or a number of consecutive channels, click on the first desired channel, press and hold the **Shift** button on your keyboard and click on the last desired channel.
3. Hold the mouse cursor over selected channels, press and hold left mouse button
4. Drag the selected channels over to the SRX-Pro Remote main screen and release the mouse button to display the channels.
5. Repeat steps 1-4 for all desired connected sites

2.6. Search on SRX-Pro Remote

One of the main functions of SRX-Pro Remote software is searching the video recordings stored on the SRX-Pro Server (remote site). SRX-Pro Remote software must be connected to a remote site before a remote search can be performed. SRX-Pro Remote software also allows searching data previously saved on the local media without being connected to any remote sites.

The remote search window on SRX-Pro Remote is identical to the search window on the SRX-Pro Server with the following exceptions:

1. In SRX-Pro Remote, the user may switch between multiple connected remote sites (right-click and select **Active**). The server must be active before a search can be performed.

2. Choosing the channels to search data by dragging from the Servers tree list

2.6.1. Search on the Connected Site

To search a remote site, do the following:

1. Connect to a desired remote site

2. Click **Search** button on Main Screen

3. Right-click an individual server and select **Active** to make it an active server. Search only may be performed on the connected, active servers.

4. Expand the Channels list of the connected active Server

5. Select one or more channels in the list.

   To select multiple channels, press and hold **Ctrl** button on your keyboard, while selecting desired channels from the list.

   To select all or a number of consecutive channels, click on the first desired channel, press and hold the **Shift** button on your keyboard and click on the last desired channel.

6. Hold the mouse cursor over selected channels, press and hold left mouse button

7. Drag the selected channels over to the SRX-Pro Remote main screen and release the mouse button to load the video data for the selected the channels.

8. Data will be loaded for the selected channels.

   Aside from this step, searching the connected Server via SRX-Pro Remote is very similar to searching via SRX-Pro Server. See Search on SRX-Pro Server section for more information.

9. Select the desired date of the video recording in the Calendar to load data for that specific day.

2.6.2. Search Offline

SRX-Pro Remote Advanced Data Manager (ADM) allows searching data previously saved on the local or removable media. Just like in SRX-Pro Server application, the user can launch *.i3d, *.avi, *.bmp, and *.jpg files from the ADM.

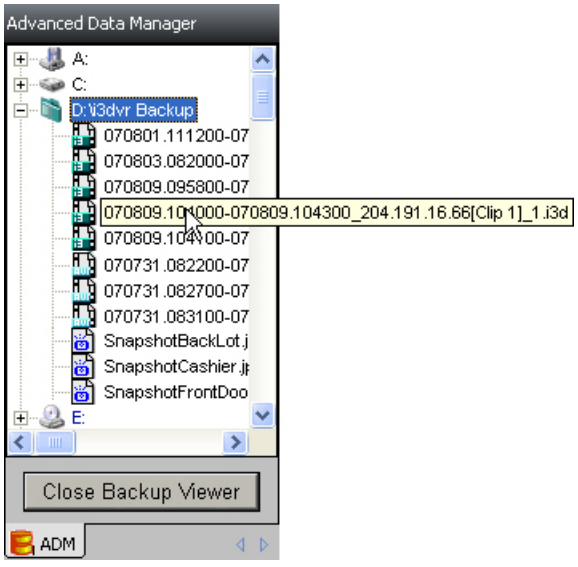
To search offline, do the following:

1. Click in **Advanced Data Manager** to expand this tab
2. Double click the backup file. All backup files types (*.i3d, *.avi, *.bmp, *.jpg) are identified by appropriate icons.

   The i3DVR format backup data will be played back inside the Search Mode screen.

   The AVI backup data will be played by Windows Media player.

   An image viewer will display the JPG or BMP backup files.



3. In the top right of Main Screen, the current mode now is **Remote - Backup Viewer Search Mode**
4. Click **Close Backup Viewer** to return to the Live Mode.

Related Topic: Search on SRX-Pro Server

3

Appendix

Topics Covered

- Upgrading AD-2016/AD-2816 Capture Card Drivers
- i³ SRX-Pro Player
- i³ Watermark Tool
- Web Search
- Liebert® MultiLink™ Viewer Configuration

3.1. Upgrading AD-2016/AD-2816 Capture Card Drivers

SRX-Pro Server software (v.1.500 and up) requires video capture board driver version 3.4 for AD-2016/AD-2816 capture card and version 1.0 for AD-3016 capture card. Correct driver version will be installed on all new DVRs/NVRs during the production stage, however if your DVR/NVR has an earlier version of SRX-Pro series software, you must upgrade the capture board driver before upgrading your SRX-Pro Server software to version 2.000.

Important

All users of SRX-Pro Ultra Lite and Lite software must be logged in as Administrator into XP Embedded OS before completing this step.

To upgrade video capture board driver for AD-2016/AD-2816 capture card, do the following:

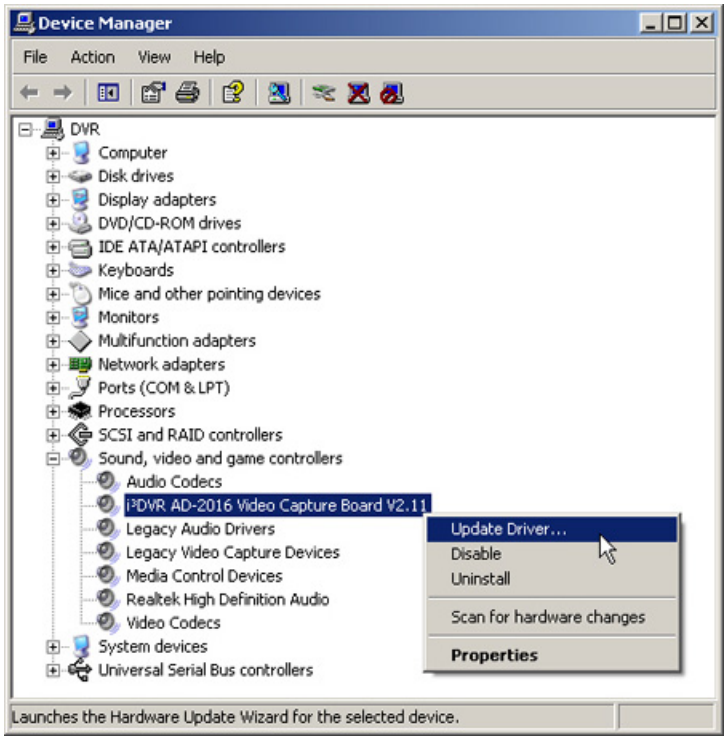
1. Access **Control Panel** and double-click the **System** icon.
2. In the System Properties window, go to Hardware tab and click **Device Manager** button.

OR

1. Locate **My Computer** icon, right-click and select **Manage** in the context menu.
2. Select **Device Manager** in the Computer Management tree list in the left pane.
3. Expand **Sound, video and game controllers** list.
4. Select the current i³ Video Capture Board driver, right-click and select **Update Driver...** in the context menu.

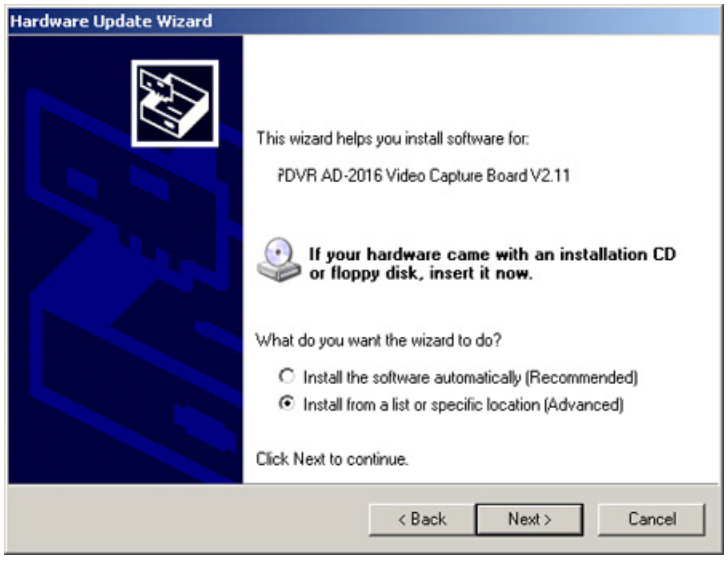
Note

On XP Embedded OS (SRX-Pro Ultra Lite and Lite), Device Manager is located in the Start Menu under Management Tools.

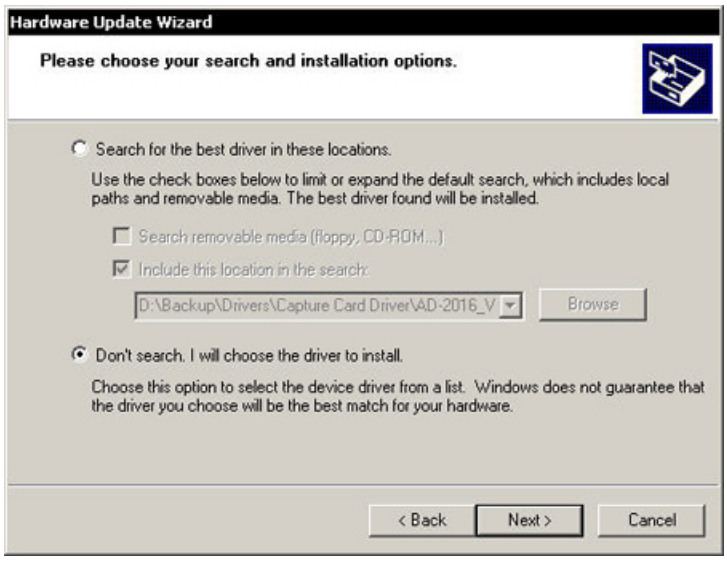


5. In the Hardware Update Wizard window, select **No, not this time** radio button and click **Next**.

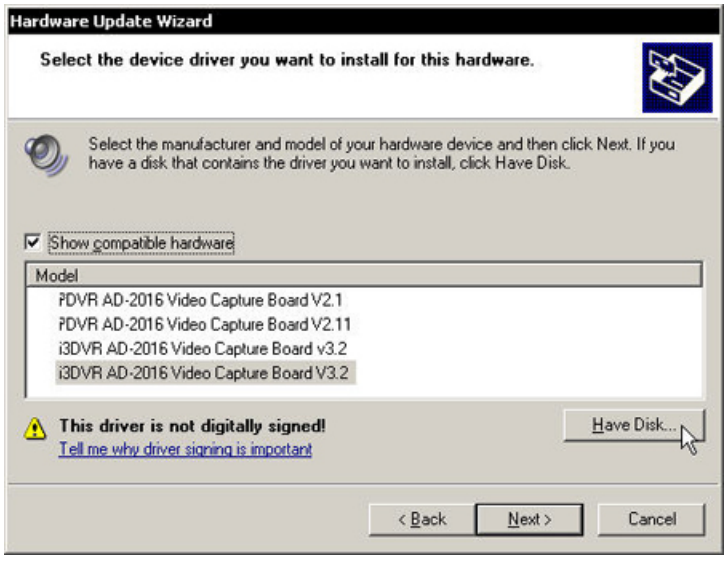
6. Select **Install from a list of specific location (Advanced)** radio button and click **Next**.



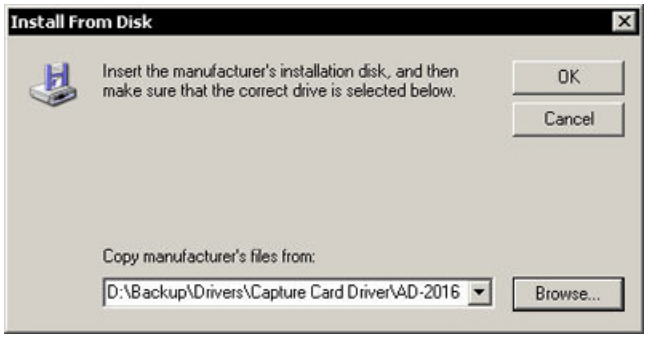
7. Select **Don't search. I will choose the driver to install** radio button and click **Next**.



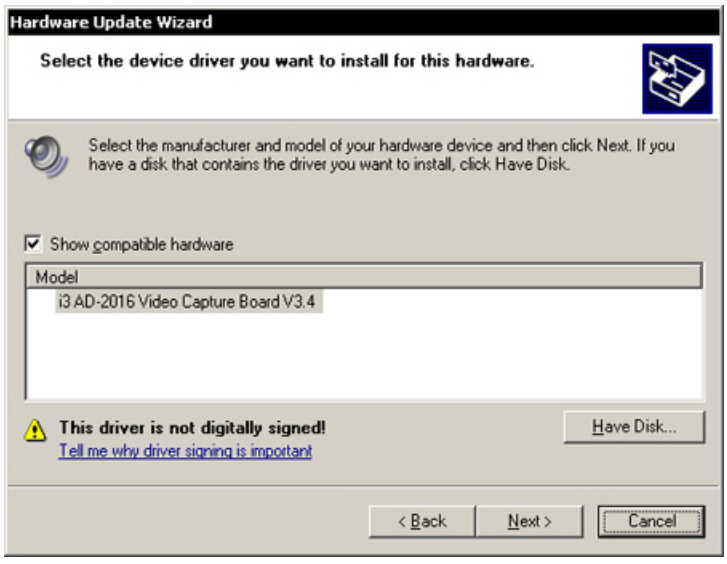
8. In the next Hardware Update Wizard window, click **Have Disk**



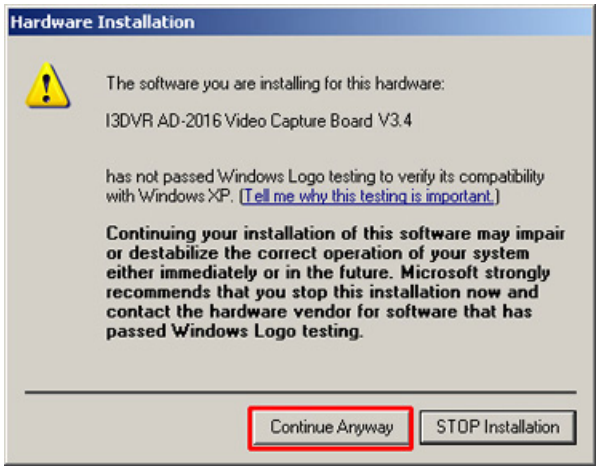
9. Install From Disk window will be displayed. Click **Browse...** , locate the *.inf driver file in the driver folder and click **Open**. Click **OK** to close the Install From Disk window.



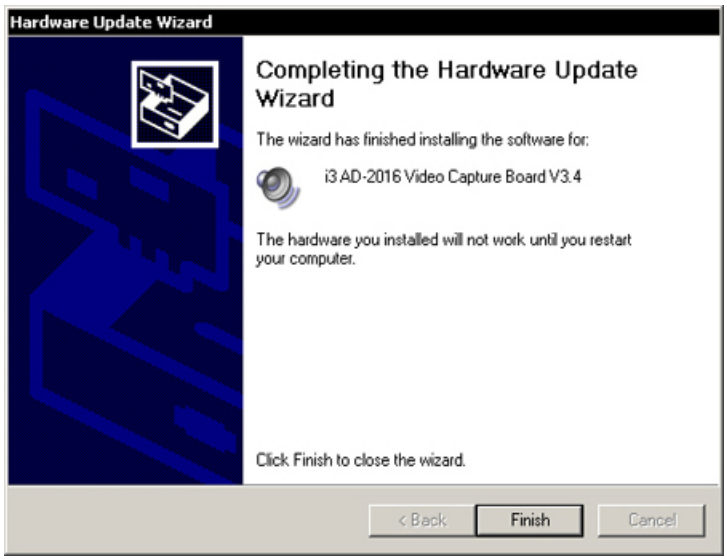
10. In the Model list, **I3DVR AD-2016 Video Capture Board V3.4** driver should be displayed (see image below). Click **Next** to proceed with the driver upgrade.



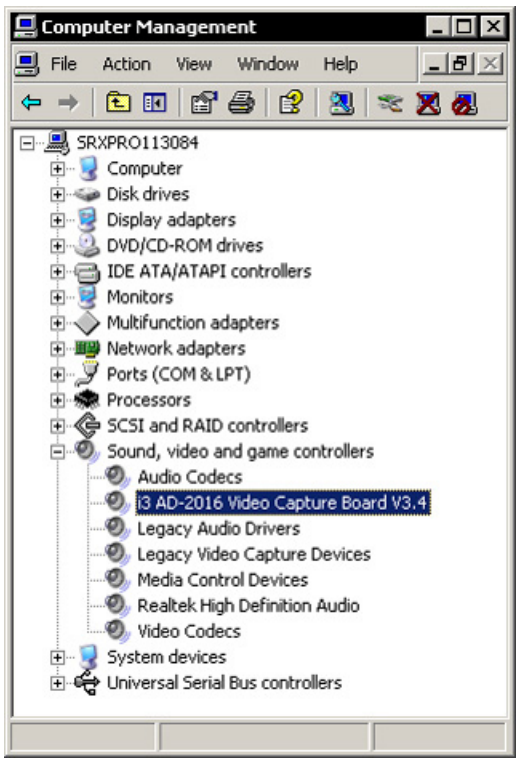
11. In Hardware Installation window, click **Continue Anyway**.



12. Wait for Completing the Hardware Update Wizard window to be displayed. Click **Finish** to complete the driver update.



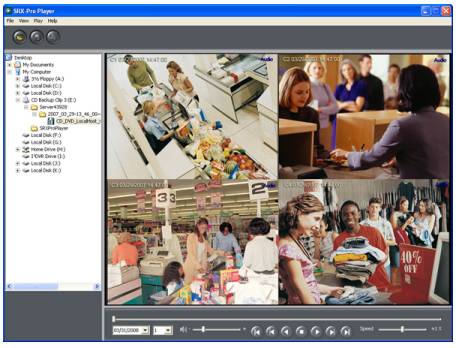
13. To confirm the successful driver update, make sure that the Video Capture Board driver version is V3.4 in Device Manager (see image below).



3.2. i³ SRX-Pro Player

Whenever an encrypted backup is burned onto a CD/DVD media, SRX-Pro Player is added onto the disk. To view recorded video, simply insert the disk into the optical drive. Provided the Autorun feature is not disabled on your PC, the SRX-Pro Player will automatically start and the recorded video will be automatically be played.

Browse the tree list in the left panel to locate the desired backup session on the CD/DVD media, select it in the list and click the **Open** button to display video in the main screen.



To control the video playback, use the video playback panel and the video slider in the bottom of the screen. To increase the playback speed, use the **Speed** slider.

Available playback speeds: 1/6X, 1/5X, 1/4X, 1/2X, 1X, 2X, 16X, 32X

If the video backup includes video recordings from more than one calendar day, select the desired date from the calendar drop-down menu.

To select the desired audio channel, click on the drop-down menu and select one of the available audio channels (if any). Only one audio channel at-a-time can be played back in SRX-Pro Player.

To mute audio, click on the speaker icon.

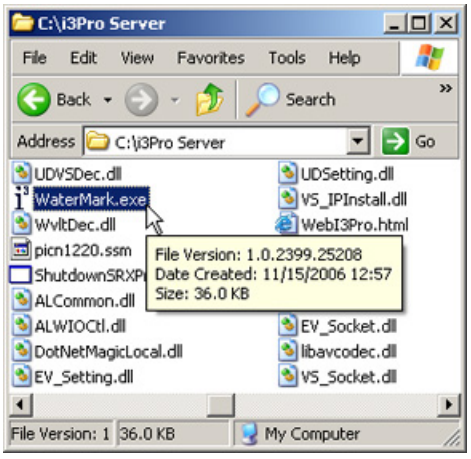
To print an image, double-click the desired video channel and click the **Print** button .

To save an image as a BMP or a JPEG file, double-click the desired video channel and click the **Save** button .

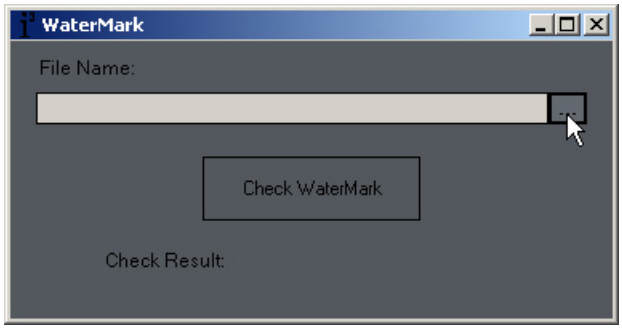
3.3. i³ Watermark Tool

With i³ Watermark tool it is possible to check the backup snapshot authenticity.

To use i³ Watermark Tool, locate the **watermark.exe** file in **C:\i3Pro Server** or inside the **SRX-Pro Player** folder on the encrypted backup CD/DVD.

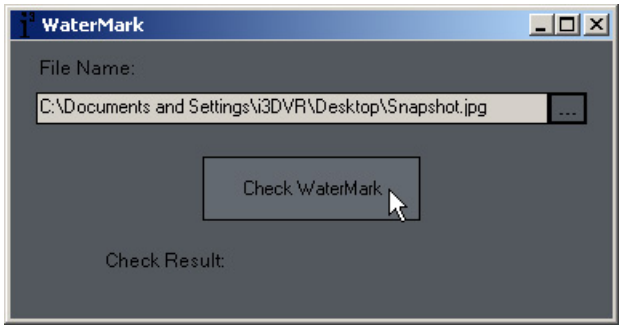


1. Double-click on the file to launch the WaterMark checker. The following window will be displayed:

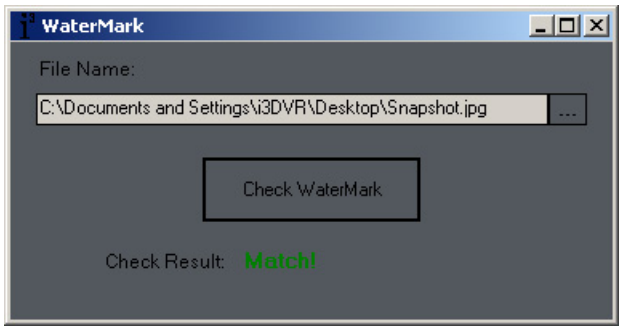


2. Click the **Browse** button and locate the JPEG or BMP snapshot.

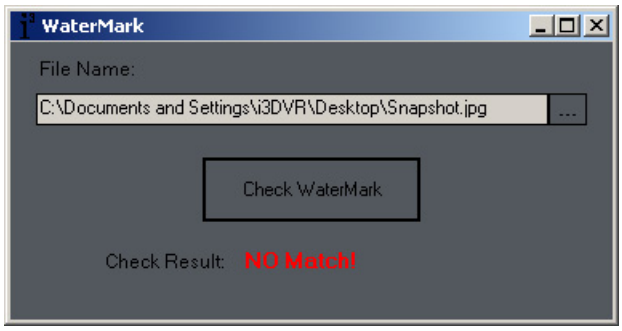
3. Click **Check WaterMark** to verify the snapshot authenticity.



4. If the snapshot is authentic and has not been tampered with, the "Match!" message will be displayed.



5. If the snapshot has been tampered with and is no longer authentic, the following message will be displayed.



3.4. Web Search

Note
If you are using multiple monitors, the Internet Explorer window must be located in the primary monitor.

Web Search is an Internet-based application that allows connecting to the remote Server, controlling remote PTZ cameras, monitoring and searching video recordings from a single remote Server.

It is impossible to backup video or to play back audio recordings through this version of Web Search. To perform backup or to review audio recording, use SRX-Pro Remote software.

To use the Web Search, do the following:

1. Open Internet Explorer window
2. In the Address field, type in the IP address of the remote Server. Follow the example: http://72.89.63.133

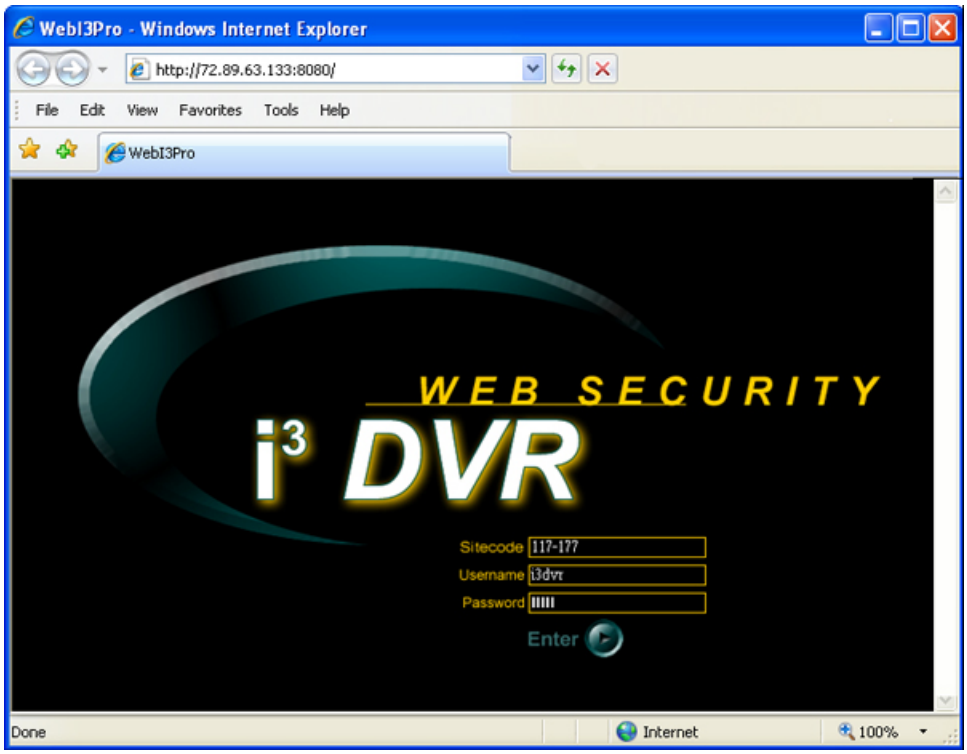
   If no changes have been made to the Apache server, it is sufficient to enter the Server's IP address. If the port has been changed, enter the port number immediately following the IP address. (Example: http://72.89.63.133:8080)

Tip
Server's IP Address is located in the Setup -> Server Info tab.

3. Install ActiveX Control if requested by the browser
4. Click **Install** in the Internet Explorer - Security Warning window if it is displayed

5. In the i³ Web Security screen, enter the remote Server information: Sitecode, Username and Password.

Tip
Server's Sitecode (Server ID) is located in the Setup -> Server Info tab.



6. If the remote server's information has been entered correctly, the split screen with all connected video channels will be displayed.

Note

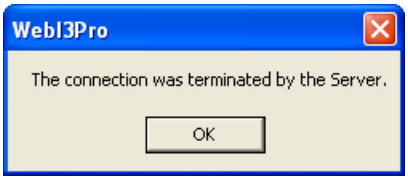
If the Server is currently in the Setup mode, the connection will not be established. Wait until the Server is on Live or Search mode and try again.

7. To view any channel in the full-screen mode, double-click on the desired channel in the split screen.

   By displaying the channel in a full-screen mode, it becomes possible to see the video in greater detail, including information such as text overlay, which otherwise would be illegible.

8. Double-click again to return to the split-screen mode.

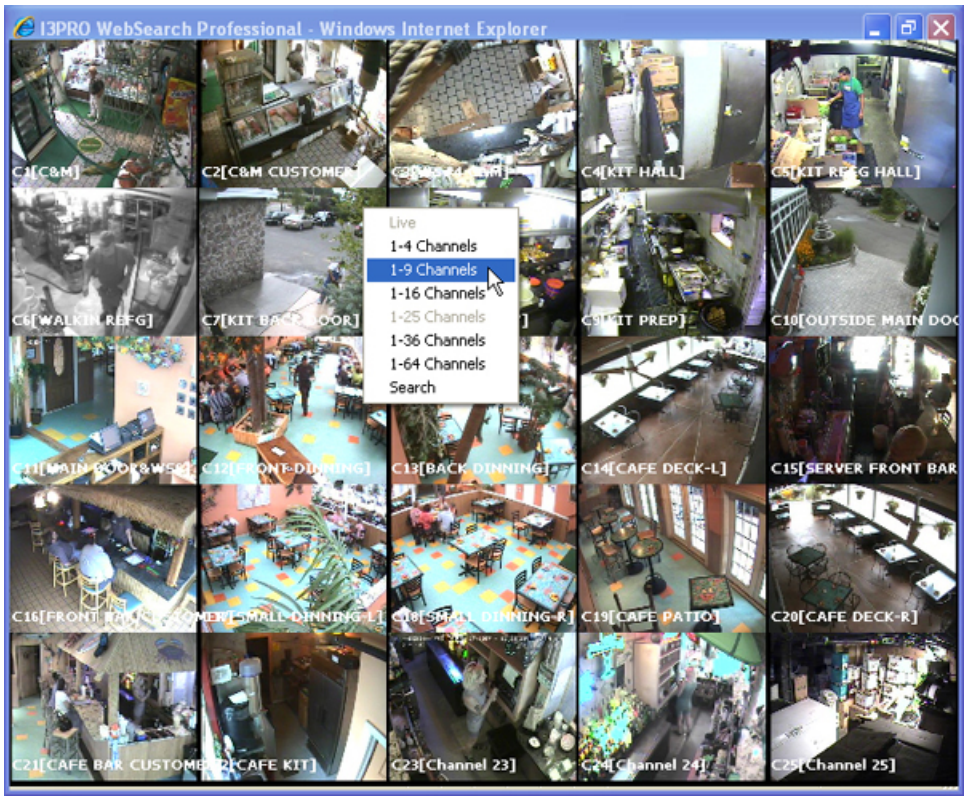
Note: If during the Web Search remote connection the setup mode is accessed on connected Server, the connection will be broken and the following message will be displayed.



3.4.1. Controlling WebSearch Main Display

To gain access to the context menu, press ENTER or SPACE BAR on your keyboard.

1. Right-click anywhere on the WebSearch screen to display the context menu.



2. To change the number of channels displayed on the screen, choose one of the following options: 1-4 Channels, 1-9 Channels, 1-16 Channels, 1-25 Channels, 1-36 Channels or 1-64 Channels (if available).

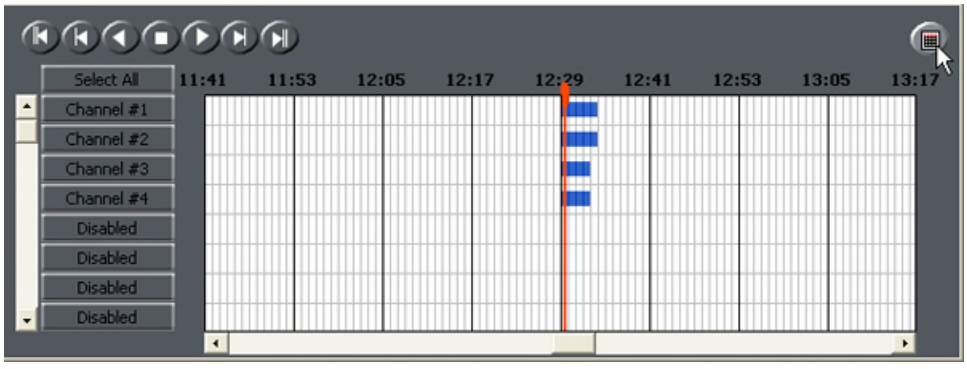
3. For example, select 1-9 Channels display option. The first 9 channels will be displayed in a 9-channel slip screen.

Note

Web Search does not support drag-and-drop features, which means it is impossible to change each individual channel's position on the screen.

3.4.2. Searching Video in WebSearch

1. To access the Search Mode, right click on the screen and select **Search** from the context menu.
2. The Timeline with built-in control panel will be displayed on the screen.



The audio recording cannot be seen or played back on this version on Web Search. Use SRX-Pro Remote software to play back audio recording.

Individual Search option is also unavailable via Web Search.

The Control Panel and Timeline function the same way as in Search Mode on SRX-Pro Server. The timeline can be zoomed into up to two times.

See Playback Control Panel and 24-hour Timeline sections for more information.

3. To display/hide the calendar window, click the **Calendar** button on the top right-hand corner of the timeline. . The Calendar window will be attached to the Timeline.

Calendar window functions the same way as in Search Mode on SRX-Pro Server. See Time Panel section for more information.

3.5. Liebert® MultiLink™ Viewer Configuration

Liebert MultiLink is an i³-recommended Uninterruptible Power Supply (UPS) product. This section describes how to configure Liebert MultiLink UPS to safely shut down SRX-Pro Server and the DVR without corrupting the video data in case of the power failure. To prevent damage to the recorded data during the power outages, i³ has developed a shutdown command to shutdown the DVR correctly without shutting down the SRX-Pro Software in the middle of the recording process.

Caution

AN UNINTERRUPTIBLE POWER SUPPLY (UPS) (MIN. 500VA) MUST ALWAYS BE USED; OTHERWISE ALL WARRANTIES WILL BE VOIDED.

Requirements:

- SRX-Pro Server version 1.401.16/1.402.32 or higher
- Liebert UPS installed and successfully connected to the SRX-Pro Server
- Liebert MultiLink Advanced Shutdown v3.5 installed on the DVR

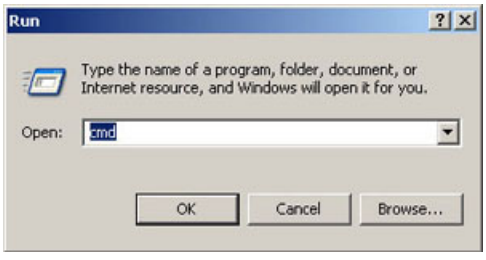
Follow these instructions on the DVR system:

1. Exit SRX-Pro Server software and access the Desktop by pressing **Ctrl+Alt+Shift+F4** on the keyboard. Enter the master user password to close the software.

Tip

Default password for i3dvr master user is i3dvr.

2. On the Desktop click **Start** -> **Run...**
3. Type **cmd** in the *Open:* field



4. A command prompt window will appear.
5. Type the following commands inside the command prompt window:
   a. Type **cd \i3pro server**

      To go to the SRX-Pro Server folder

   b. Type **shutdownsrxpro –c**

      To create an encrypted configuration file

   c. Enter master username and password for SRX-Pro Server when prompted

      Ask your network administrator for SRX-Pro Server **master** user account login information. Default is **i3dvr/i3dvr**.

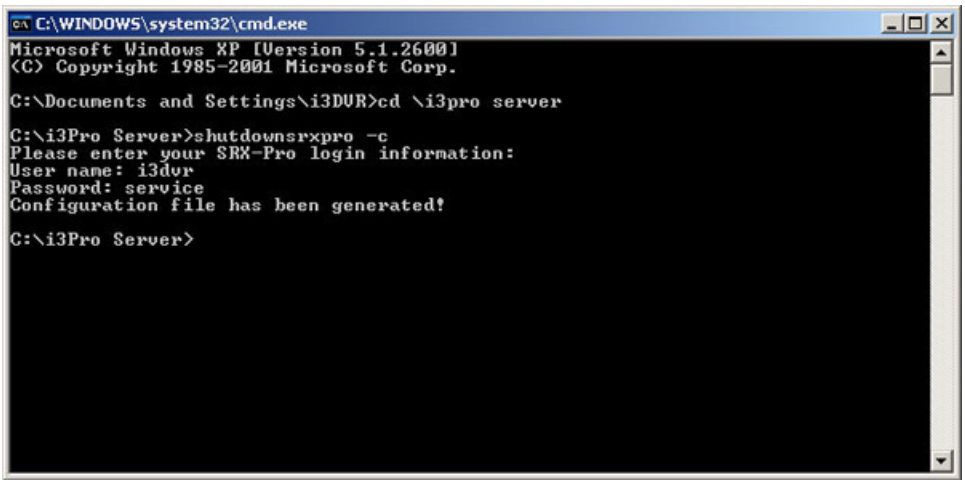
   d. Wait for the following message "Configuration file has been generated!" is shown in the image below

   e. Type **exit**

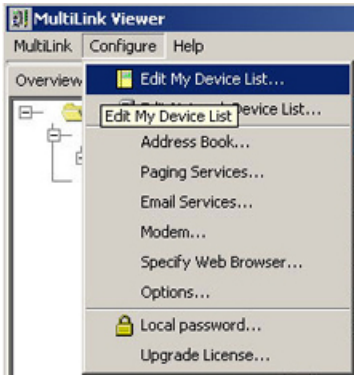
      To close the command prompt window

Note

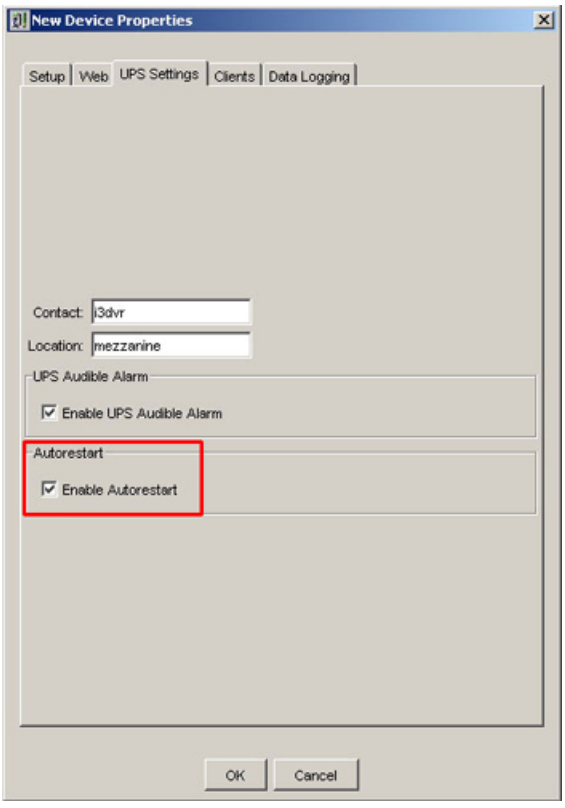
This process creates an encrypted username/password file in the i3Pro Server folder. This prevents the users from seeing the username/password in the command line argument of the MultiLink Viewer.



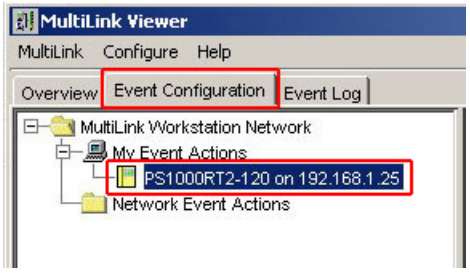
6. Open the MultiLink Viewer via the Start menu
7. Go **Configure** -> **Edit My Device List** menu



8. Select connected UPS from the drop-down list and click **Edit**
9. In the New Device Properties window, go to UPS Settings tab
10. Check off **Enable Autorestart** checkbox



11. In **MultiLink Viewer** window, go to Event Configuration tab on the left pane and select **PS1000RT2-120** model under **My Event Actions**.



12. A list of events will be displayed in the right pane. For each available event, an action may be chosen, such as: **Notify**, **Email**, **Shutdown**, **Command**, **Log**, etc. Decide which events will cause SRX-Pro Server and the DVR to shut down. For each such event, both **Shutdown** and **Command** actions must be checked off and configured. It is also advisable to configure Email action for any such event as well.

13. i³ recommends to configure the following events:

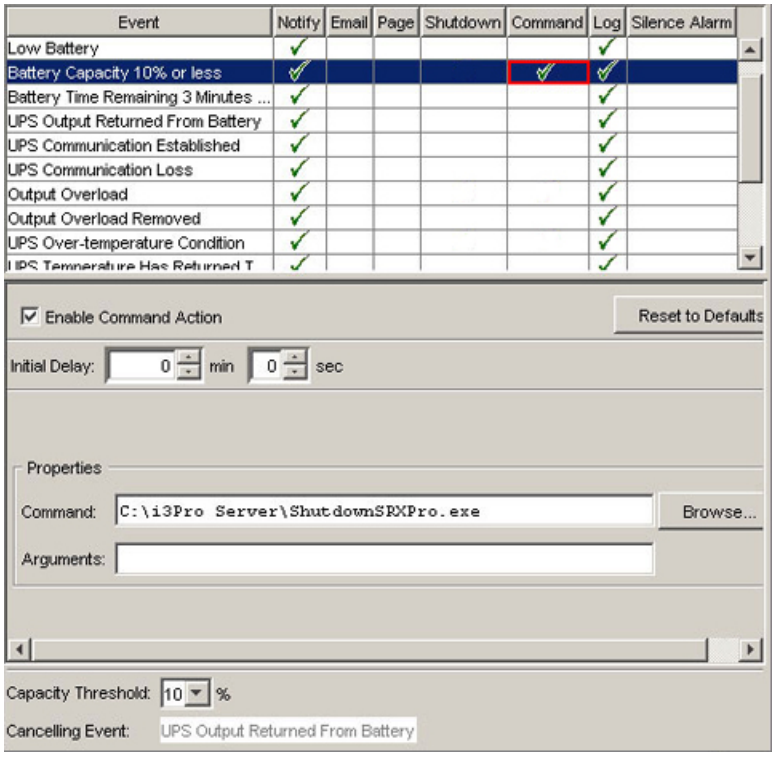
    a. Battery Capacity 10% or Less

    b. Output Overload (may use the same setting as the *Battery Capacity 10% or less* event)

    c. UPS Over-temperature Condition

14. To configure **Command** action for the desired events, click on the **Command** column of the first chosen event. Green checkmark will be displayed and configuration options will be displayed in the window pane directly below.

    Repeat the steps below for Command actions of all desired events.



    a. Check off **Enable Command Action** checkbox

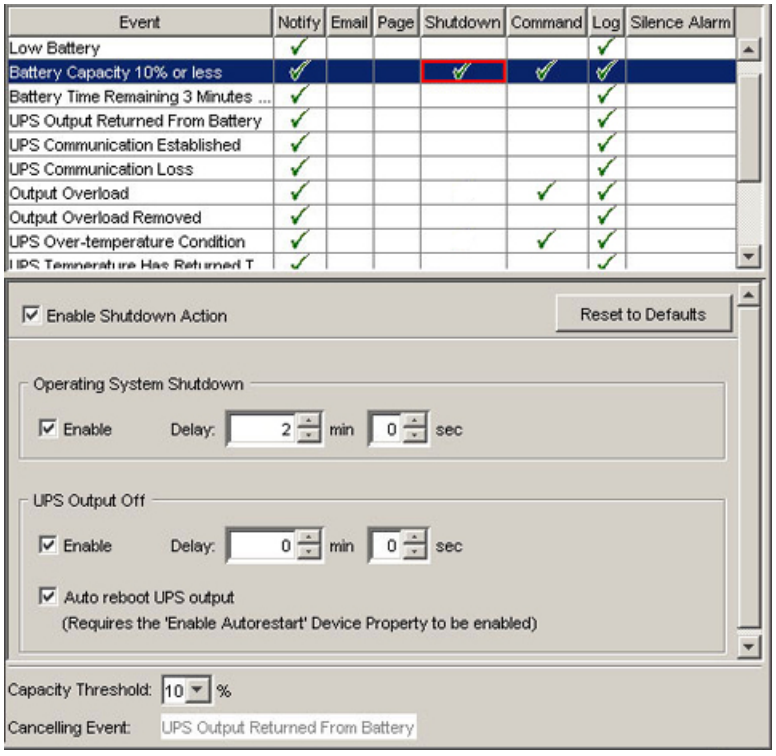
    b. Set the **Initial Delay:** time to **0 min**, **0 sec**

    c. In the Command: field, click **Browse...**

    d. Go to **C:\i3Pro Server** folder, select ShutdownSRXPro.exe file and click **Open**

15. To configure **Shutdown** action for the desired events, click on the **Shutdown** column of the first chosen event. Green checkmark will be displayed and configuration options will be displayed in the window pane directly below.

    Depending on the event, i³ recommends the following settings:



    For *Battery Capacity 10% or less* and for **Output Overload** events,

    a. Check off **Enable Shutdown Action** checkbox

    b. In **Operating System Shutdown area**,

        i. Check off **Enable** checkbox

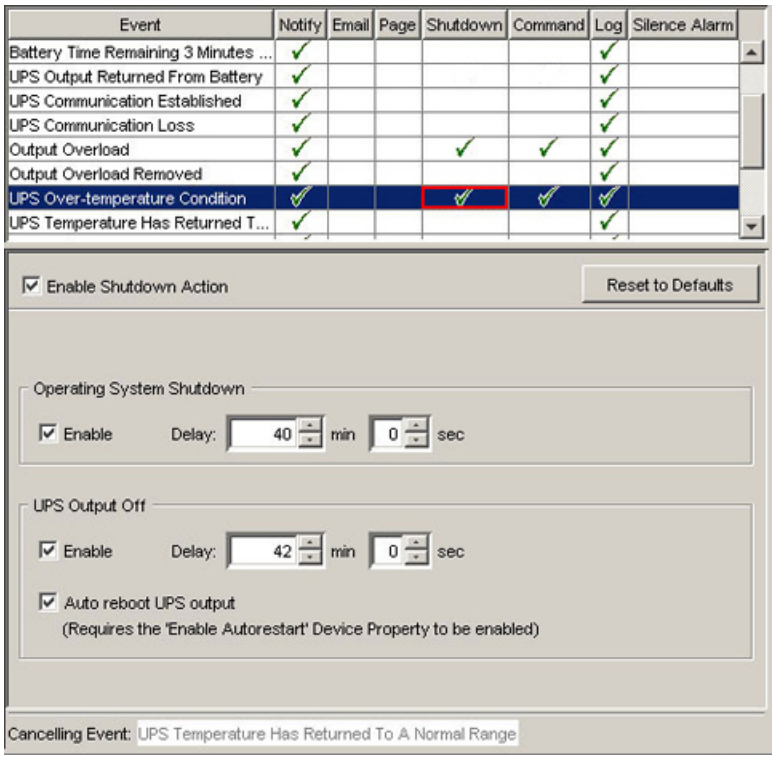
        ii. Set Delay: time to **2 min**, **0 sec**

    c. In **UPS Output Off** area,

        i. Check off **Enable** checkbox

        ii. Set the Delay: time to **0 min**, **0 sec**

    d. Check off **Auto reboot UPS output** checkbox



For **UPS Over-temperature Condition** event,

a. Check off **Enable Shutdown Action** checkbox

b. In **Operating System Shutdown area**,

   i. Check off **Enable** checkbox

   ii. Set Delay: time to **40 min**, **0 sec**

c. In **UPS Output Off** area,

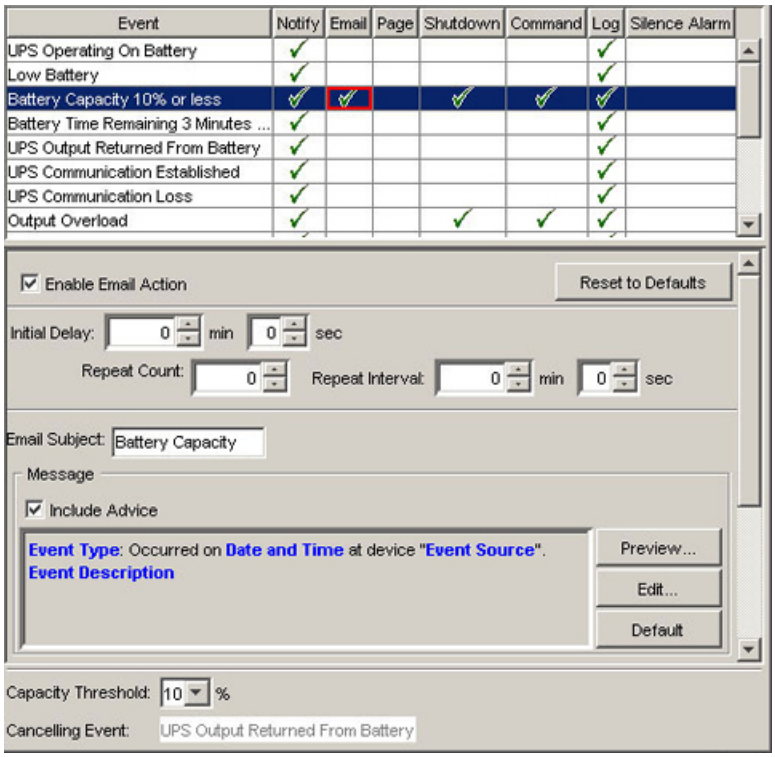
   i. Check off **Enable** checkbox

   ii. Set the Delay: time to **42 min**, **0 sec**

d. Check off **Auto reboot UPS output** checkbox

16. To configure **Email** action for the desired events, click on the **Email** column of the first chosen event. Green checkmark will be displayed and configuration options will be displayed in the window pane directly below.

    Repeat the steps below for Email actions of all desired events.



a. Check off **Enable Email Action** checkbox

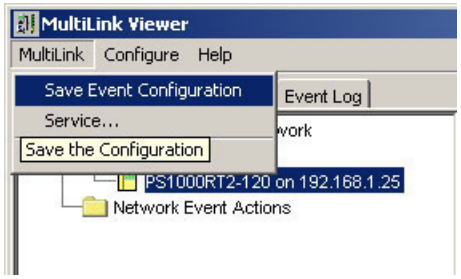
b. Set Initial Delay: time to 0 min, 0 sec

c. Set Repeat Count: to 0

d. Set Repeat Interval: to 0 min, 0 sec

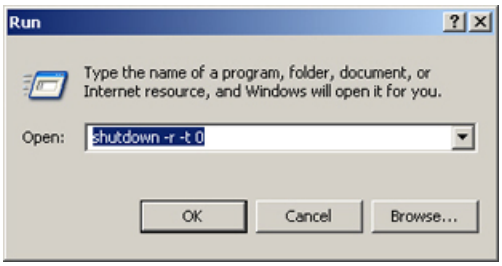
e. Configure Email parameters, such as mail server, recipient, etc.

17. To save all configured settings, go **MultiLink -> Save Event Configurations** menu



18. Close Multilink Viewer window and restart the DVR.

19. To restart, go **Start -> Run...,** type **shutdown -r -t 0** and click **OK**. The DVR will restart.


Run
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:
shutdown -r -t 0
OK
Cancel
Browse...

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