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Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

Annexus Mini Network Dome Camera User Guide Ax32V Models

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FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: **(1)** This device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation.

Address:

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Tech Support: 1.877.877.7241 or email to: support@i3international.com
Web Site: www.i3international.com

1 Introduction

Thank you for purchasing an i³ Annexus Network Camera. The Ax32V models are vandal-proof dome cameras that can be viewed on site or remotely. They come with i³'s Annexus Web Viewer software which operates on an Internet Explorer web browser platform so is easy to install and offers a range of user-friendly video functions.

The Ax32V cameras integrate perfectly into i³ International's SRX-Pro DVMS systems.

1.1 Precautions

Safety

1. This quick start guide is designed for users who have an adequate knowledge of network cameras.
2. Do not touch the imaging surface of the sensor. Use a soft cloth moistened with alcohol to clean the surface if it is touched accidentally.
3. Ensure the power supply voltage is correct for the particular variant of camera before operation.
4. Do not attempt to service this camera yourself unless you are authorized to do so. Opening the camera may expose you to electrocution or other hazards. Refer all servicing to qualified personnel only.
5. For more details on installation and operation, please refer to the CD provided.

1.2 Unpacking

Camera Parts and Definition

Hardware/Software Requirements

Ax32V2M series Specifications:

Model	Ax32V2M series
Parameter	2 megapixel CMOS IP Vandal-Proof Indoor Dome Camera
Camera	
Image Sensor	1/3 inch CMOS
Electronic Shutter	1/25s ~1/100,000s
Min. Illumination	Color: 0.5Lux @ F1.2 B / W: 0.1Lux @ F1.2
Lens	4mm, F1.2 Fixed Iris (2.8, 6, 8mm optional) Angle of view: 90°
Day / Night	Electronic
Video Parameter	Saturation/Brightness/Contrast/ adjustable through client software or web browser
Adjustment Range	Pan±15°, Tilt0~90°, Rotation±15°
Compression Standard	
Video Compression	H.264/Mpeg4/MJpeg
Bit rate	32 Kbps~16Mbps
Audio Compression	OggVorbis
Image	
Max. Image Resolution	1600 x 1200
Frame Rate	15fps (1600 x 1200), 30fps (1280 x 720)
Function	
e-PTZ	Yes
Storage	Support NAS, iSCSI
Intelligent Alarm	Motion Detection, Video Tampering, Video Loss, Network Broken, IP address conflict, Storage exception
Protocols	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTCP,PPPoE,FTP,SMTP,NTP,SNMP,HTTP S, SIP, 802.1x, IPV6
Basic	Initial Set button, Anti-flicker, Dual Stream, Heartbeat, Password Protection, watermark
3-Axis adjustment	Yes
Interface	
Audio	Internal Microphone optional
Communication Interface	1 RJ45 10M / 100M self adaptive Ethernet port
General	
Operating Condition	-10°~60°, Humidity 90% or less(non-condensing)
Power Supply	DC12V±10% / PoE
Power Consumption	3W MAX
Impact Protection	IEC60068-275Eh,50J;EN50102, exceeding IK10
Weather Proof	IP66
Dimensions(mm)	100x97.5x46.5
Weight	250g

Ax32VD1 Series Specifications

Model	Ax32VD1 Series
Parameter	VGA Real-time CMOS Mini IP Vandal-proof Dome Camera
Camera	
Image Sensor	1/4 inch CMOS
Electronic Shutter	1/25s ~1/100,000s
Min. Illumination	Color: 0.1 Lux @ F1.2 B / W: 0.01Lux @ F1.2
Lens	4mm, F1.2 Fixed Iris(2.8, 6, 8mm optional) Angle of view: 71°
Day / Night	Electronic
Video Parameter	Saturation/Brightness/Contrast/ adjustable through client software or web browser
Adjustment Range	Pan±15°, Tilt0~90°, Rotation±15°
Compression Standard	
Video Compression	H.264/Mpeg4/MJpeg
Bit rate	32 Kbps~8Mbps
Audio Compression	OggVorbis
Image	
Max. Image Resolution	640x480
Frame Rate	30fps @ 640x480
Function	
Storage	Support NAS, iSCSI
Intelligent Alarm	Motion Detection, Video Tampering, Video Loss, Network Broken, IP address conflict, Storage exception
Protocols	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTCP,PPPoE,FTP,SMTP,NTP,SNMP,HTTPS, SIP, 802.1x, IPV6
Basic	Initial Set button, Anti-flicker, Dual Stream, Heartbeat, Password Protection, watermark
3-Axis adjustment	Yes
Interface	
Audio	Internal Microphone optional
Communication Interface	1 RJ45 10M / 100M self adaptive Ethernet port
General	
Operating Condition	-10°~60°, Humidity 90% or less(non-condensing)
Power Supply	DC12V±10% / PoE
Power Consumption	3W MAX
Impact Protection	IEC60068-275Eh,50J;EN50102, exceeding IK10
Weather Proof	IP66
Dimensions(mm)	100x97.5x46.5
Weight	250g

2 Camera connection & Annexus Installation

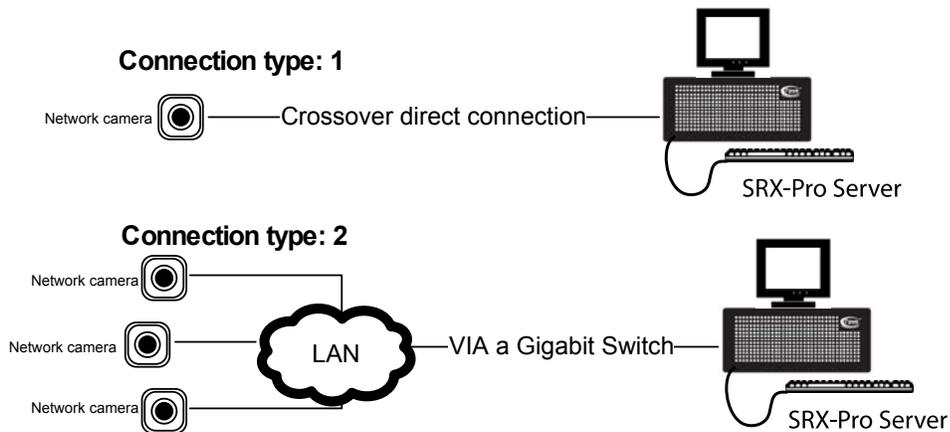
Topics covered

- Connecting the network camera
- Network camera IP configurations
- Annexus Web Viewer Installation and Setup details
- Annexus Advanced Setup

Note: Internet Explorer version 6.0 or higher is necessary to connect with an i3 International network camera.

2.1 Connecting a network camera

Two methods of connecting a network camera and PC are shown below:



2.2 Network Camera Default IP Configurations

The RJ-45 Network Port on the network camera will connect to an Ethernet/Fast Ethernet standard (10/100Base-TX) network, complying with the IEEE 802.3U standard. Annexus device may be connected to a hub, switch or router with a straight through CAT5e cable, or directly to the DVR/NVR with a crossover CAT5e cable.

Network Settings:

Ax32V Default IP configurations :

IP Address: 192.0.0.16
Subnet Mask: 255.255.255.0

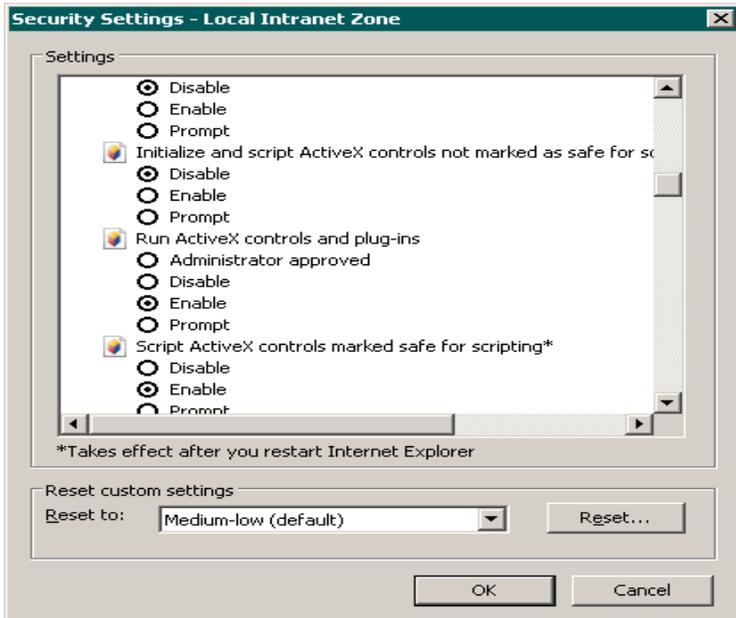
2.3 Annexus Web Viewer Installation and Setup details

Note: Internet Explorer version 6.0 or higher is necessary to connect with an i3 International network camera.

2.3.1 Installing Annexus Web Viewer and accessing Setup mode

1. Connect the network camera to the supported power source in accordance with the connections diagram.

2. Connect the camera to a LAN/WAN network.
3. Before viewing, you may need to adjust your browser's security settings. To do so:
 - From the Tool menu, click **Internet Options**.
 - Click on the **Security** tab.
 - If the camera is using the **intranet**, click the **Local intranet** icon. If the camera is using the **internet**, click the **Internet** icon.
 - Click on **Custom level**. Under *ActiveX controls and plug-ins*, enable the following three functions: **'Download signed ActiveX controls'** **'Run ActiveX control and plug-ins'** **'Script ActiveX controls marked safe for scripting'**.
 - Click **OK**.



4. Open Internet Explorer browser window on a local PC/laptop and enter Annexus IP address (192.0.0.16 for Ax32V) in the address line.
5. When connecting for the first time, you may be prompted to install Annexus 300 Active X control. Click on the banner and select **install the following Active X control 'Annexus 300' from 'I3 International Inc.'**... from the context menu.



6. In the *Internet Explorer - Security Warning* window, click **Install**.



7. The Annexus Web Viewer screen will be displayed with the Login window. Enter Annexus Username and Password and click **Login**.

Note

The login is case sensitive. The default administrative login is: **Username: admin; Password: 1234**

8. Annexus Web Viewer opens and a live view from the camera appears.

9. To adjust parameters click the **Setup** button on the main screen . See the Annexus Advanced Setup section (s.2.4) of this manual for more information.

2.3.2 Changing IP Address

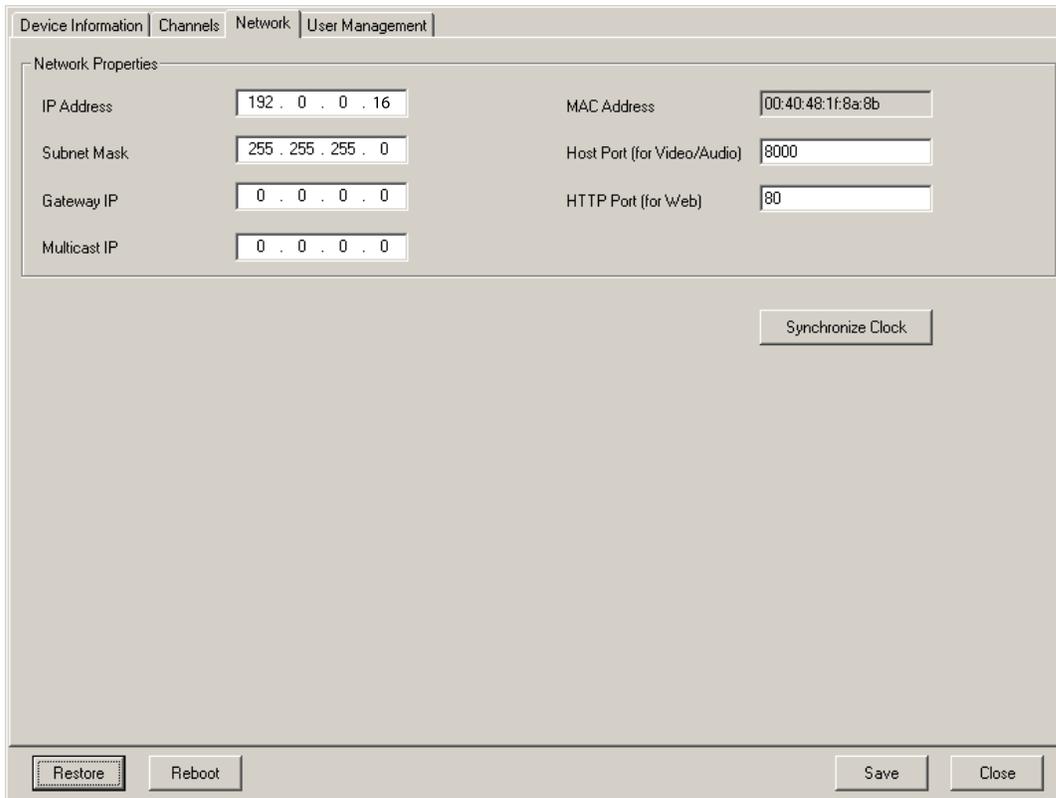
Your Ax32V2M series Network camera comes with the pre-assigned IP scheme: IP Address 192.0.0.16; Subnet mask: 255.255.255.0

To change camera IP Address:

1. Install Annexus Active X as in section (2.3). Open and login to Annexus.

2. Click the **Setup** button on the main screen  and open the *Network* setup tab.

3. In the *Network* setup tab, configure IP settings, such as IP Address and Subnet Mask for LAN connections or IP Address, Subnet Mask, and Gateway IP for WAN connections. It is entirely the responsibility of a technician to be able to configure this setup page according to customer's network configurations.



4. Click the **Save** button and wait for the "Settings changes have been successfully saved" message window to pop up. Click **OK** to close the message window.
5. Wait for "Please reboot Annexus device to apply changes" window to pop up. Click **OK**. Click **Reboot** button.
6. Wait for "Would you like to reboot Annexus device?" window to pop up. Click **OK**.
7. Wait for "Annexus device is rebooting. Close Internet Explorer browser, wait 45 seconds and connect to Annexus Viewer again" window to pop up. Click **OK**.

2.4 Annexus Advanced Setup

To change additional network camera settings, click the Advanced **Setup** button .

Four setup tabs are available in **Advanced Setup**: Device Information, Channels, Network and User Management.

In the bottom of each setup window there are four control buttons: **Restore**, **Reboot**, **Save** and **Close**.

The **Restore** button is available to authorized users only. Click it to restore the Annexus device settings to the factory default settings. Settings must be restored to factory default after each firmware upgrade. **WARNING:** All custom settings will be lost, including any additional users.

The **Reboot** button is available to authorized users only. Click it to reboot the Annexus device. A device reboot is required after the video recording settings have been changed or after a firmware upgrade. Read related section for instructions on rebooting the device.

The **Save** button is available to authorized users only. Click it to save any setting changes. To prevent unauthorized users from making changes to the Annexus device, disable the Save button in the User Management setup tab.

The **Close** button closes the Advanced Setup window.

2.4.1 Device Information Setup

The following information about the Annexus device can be found in the **Device Information** setup: the number of video channels, sensor inputs, control outputs and internal storage devices connected to the network, the current device firmware version and the device's serial number. Authorized users can also assign/change the device name, change the overwrite mode and upgrade the device's firmware version.

Device Information | Channels | Network | User Management

Device Name: ANNEXXUS
Number of Video Channel(s): 1
Number of Sensor Input(s): 0
Number of Control Output(s): 0
Number of Internal Storage Device(s): 0
Firmware Version: V3.0 build 10/206
Serial Number: DS-2CD7153-E0120100511BBRR400543675
Overwrite Mode *: On

Firmware Upgrade
Firmware File: firmware.anx [Browse...] [Upgrade]
Firmware Upgrade Status:

Format Disk
Select: All Internal Storage Device(s) on IP module [Format]
Format Status:

Note:
- If overwrite mode is "ON" then the internal storage device will be overwritten from the beginning when it is full.
- If overwrite mode is "OFF" then the internal storage device stop recording when it is full.
- When first installing an internal storage device, please make sure that it is formatted and recording schedule is set up properly before recording/search can be activated.

[Restore] [Reboot] [Save] [Close]

NOTE: Overwrite Mode only functions when used in conjunction with SRX-Pro software.

Device Name

In **Device Name**, enter the camera's custom name.

Firmware Upgrade

This function is only available to authorized users. Read the Upgrading Firmware section for instructions on how to upgrade Annexus device firmware.

2.4.2 Channels Setup

In the **Channels** Setup, authorized users can perform the following tasks for each selected video channel:

- Assign/change channel name.
- Display/hide channel name, change the position of the channel name on the video screen.
- Display/hide timestamp and day of the week; change the position of the timestamp on the video screen; change the display style of the timestamp if enabled.
- Display/hide up to 4 personalized text messages on the video screen – called *text overlay*.
- Enable video privacy masking, set up to 4 video privacy masking areas.
- Change the display and recording resolution for the main and sub video streams.
- Change the display frame rate for the main and sub video streams.
- Change other transmission settings: I Interval, BitRate Type, BitRate, and Frame Type.

Device Information | Channels | Network | User Management

Select Channel: Channel 01 | Channel Name: Camera 01 | Copy Settings to: All Channels | Copy

Channel Properties

Recording on the Internal Storage Device(s)

Enable Recording | Recording Schedule ... | Pre-recording: 5 Seconds | Post-recording: 5 Seconds

Privacy Mask | Set Area ... | Alarm Schedule ... | Associate with ...

On Screen Displays

Show Channel Name | X Pos: 512 | Y Pos: 416 | Style: Transparent & Flashing | 10/ 4/2010 | 13:39:07

Show Date/Time | X Pos: 0 | Y Pos: 32 | Format: MM-DD-YYYY (MDY) | Show Day of the Week

Transmission Settings

Type: Main Stream | Resolution: 1600 x 1200 | Frame Rate: 15(N)/12(P)

Stream Type: Video | BitRate Type: Variable | BitRate: 2048Kbps

I Interval: 10

Text Overlay (Note: Text Overlays will not be copied when copying settings between channels)

	X	Y	Content
<input type="checkbox"/> Area 1	0	0	
<input type="checkbox"/> Area 2	0	0	
<input type="checkbox"/> Area 3	0	0	
<input type="checkbox"/> Area 4	0	0	

Restore | Reboot | Save | Close

2.4.3 Network Setup

The RJ-45 Network Port on the IP camera allows it to be connected to an Ethernet/Fast Ethernet standard (10/100Base-TX) network, complying with the IEEE 802.3U standard. Annexus device may be connected to a hub, switch or router with a straight through CAT5e cable, or directly to the DVR/NVR with a crossover CAT5e cable.

See Annexus Default IP Configurations section for information on Annexus factory default IP configurations.

In the **Network** Setup, authorized users can obtain the network camera's MAC Address; change its IP Address, Subnet Mask, Gateway IP, Multicast IP, Host Port (for Video/Audio) and/or HTTP Port (for Web access). Please contact your network administrator for more information on your network particulars.

Important: Make sure to open all ports required for remote viewing. The following ports must be forwarded: 80, 554, 8000, 8200.

Unique **IP address** must be assigned to each Annexus unit before installation. Unless this step is completed prior to installation, the customer will be unable to detect Annexus module on their LAN/WAN network. See Changing IP Address section for instructions on how to change Annexus IP address.

It is highly recommended to click **Synchronize Clock** to synchronize the camera to the time zone in which it is used. If this isn't done the time stamp on snapshots will not match the time of the time zone.

The screenshot shows a web interface window titled "Network Properties" with tabs for "Device Information", "Channels", "Network", and "User Management". The "Network" tab is active. The window contains several input fields for network configuration:

IP Address	192 . 0 . 0 . 16	MAC Address	00:40:48:1f:8a:8b
Subnet Mask	255 . 255 . 255 . 0	Host Port (for Video/Audio)	8000
Gateway IP	0 . 0 . 0 . 0	HTTP Port (for Web)	80
Multicast IP	0 . 0 . 0 . 0		

Below the input fields is a "Synchronize Clock" button. At the bottom of the window are buttons for "Restore", "Reboot", "Save", and "Close".

2.4.4 User Management Setup

One administrator account and up to 15 additional accounts can be configured for the network camera.

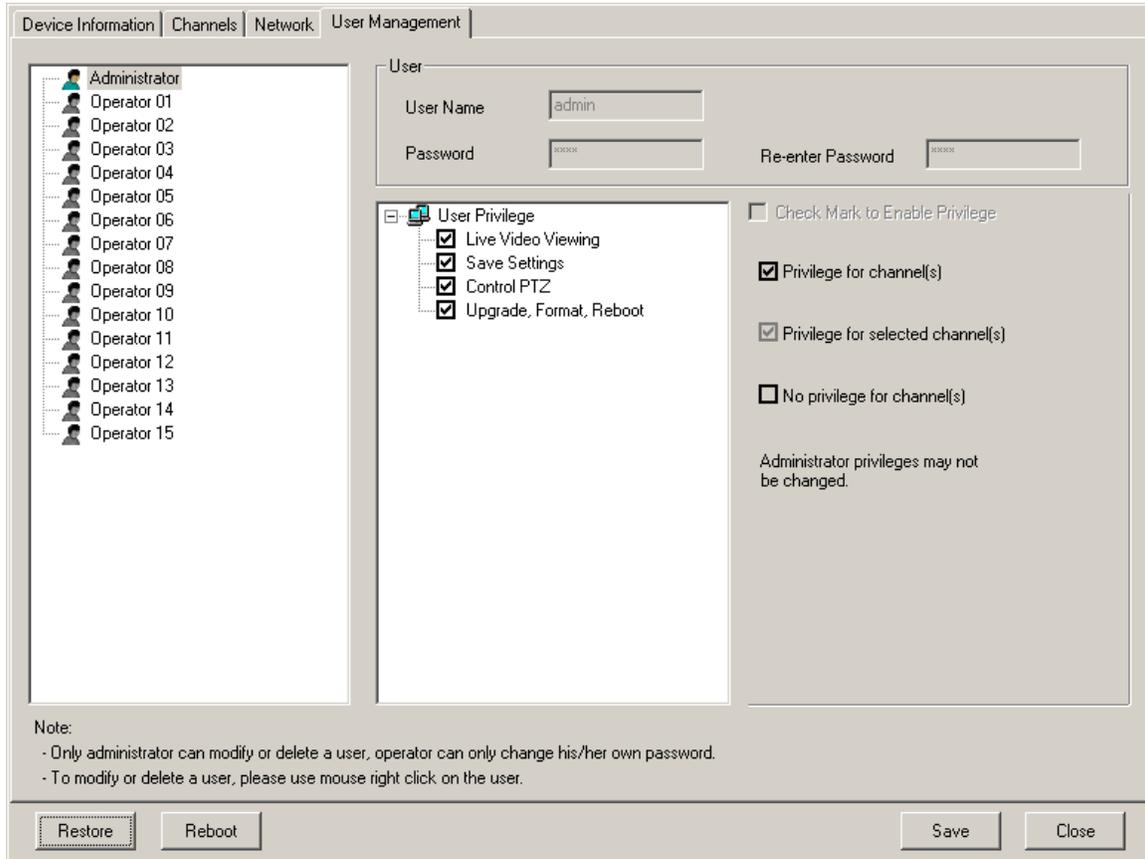
Administrator user

The default administrator user name is **admin**; the default password is **1234**. The Administrator is the only user that can change the administrator password. The administrator user name and user privileges cannot be changed. If the administrator password is lost after being changed, use Annexus Finder to reset it to the factory default.

The administrator is the only user that can add, modify or delete additional operator users.

Operator user

Operator users will only have access to setup tabs and features that are specified in their user privileges. Operator users cannot add, modify or delete other operator accounts. An operator user can only change his/her own password.



2.4.4.1 Changing Administrator Password

To change the administrator password, you must be logged in as Administrator.

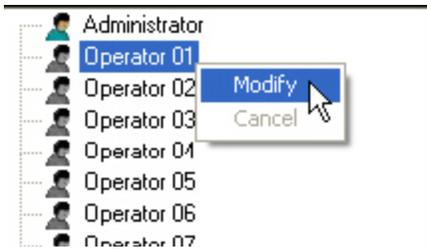
1. In the *User Management* setup tab, right-click on the Administrator account in the left-hand pane and select **Modify** from the context menu.
2. Type in the new password in **Password** and **Re-enter Password** fields. The password may only consist of numbers and may not exceed 16 characters.
3. Click **Save** to save the new administrative password.

2.4.4.2 Adding/Modifying/Deleting Operator User

Adding/Modifying Operator User

To add a new operator user or to modify an existing operator user:

1. In the *User Management* setup tab, right-click on the desired Operator account in the left-hand pane and select **Modify** from the context menu.

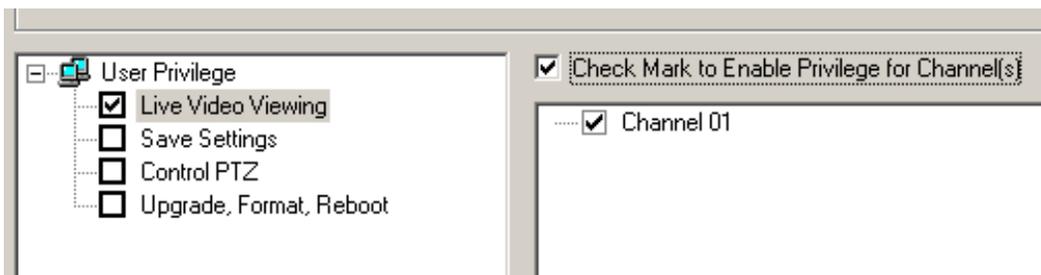


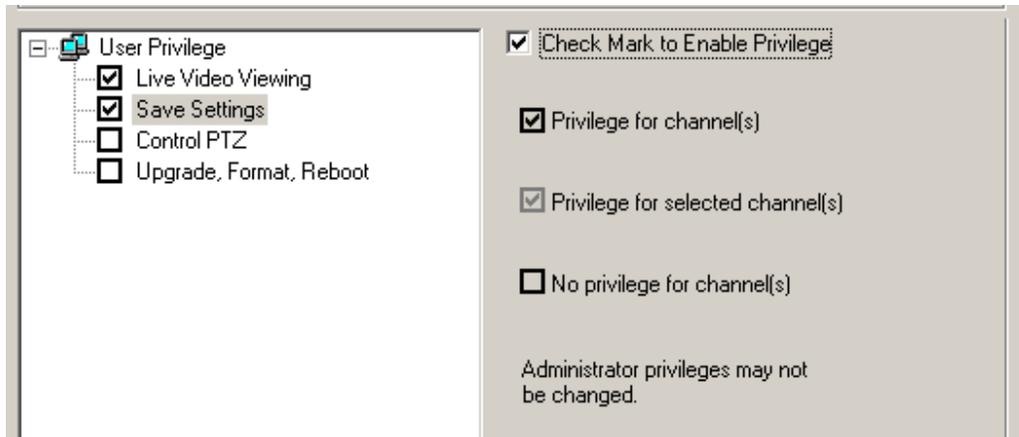
2. Enter the user name in **User Name** field. User name may not exceed 16 characters.
3. Enter the password in **Password** and **Re-enter Password** fields. The password may only consist of numbers and may not exceed 16 characters.

4. Configure user privileges. The following privileges can be assigned to the operator user(s):

<u>User Privilege</u>	<u>Privilege Limitation</u>
Live Video Viewing (configured per channel)	Check off to allow the operator to view live video.
Save Settings	Check off to allow the operator to make changes to Annexus setup.
Control PTZ (<i>only applies to Ax32V2M series model</i>)	Check off to allow operator to control the camera's electronic Point/Tilt/Zoom (ePTZ) function.
Upgrade, Format, Reboot	Check off to allow the operator to upgrade the camera firmware or to reboot the Annexus device.

To assign Live Video Viewing, check off **Check Mark to Enable Privilege for Channel(s)** then make sure **Channel 01** is checked. For the **Save Settings**, **Control PTZ** and **Upgrade, Format, Reboot** privileges check off **Check Mark to Enable Privilege**.



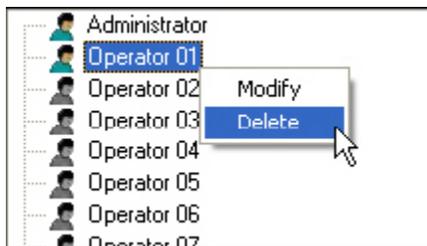


5. Click **Save** to save changes to all user accounts

Deleting Operator User

To delete an operator user, do the following:

1. In the User Management setup tab, right-click on the desired Operator account in the left-hand pane and select **Delete** from the context menu.



Note that the user will be deleted immediately and no warning message will be displayed.

3 Using Annexus Web Viewer Interface

Topics covered:

- Introduction to Annexus Web Viewer
- Live video streaming
- Taking a live snapshot

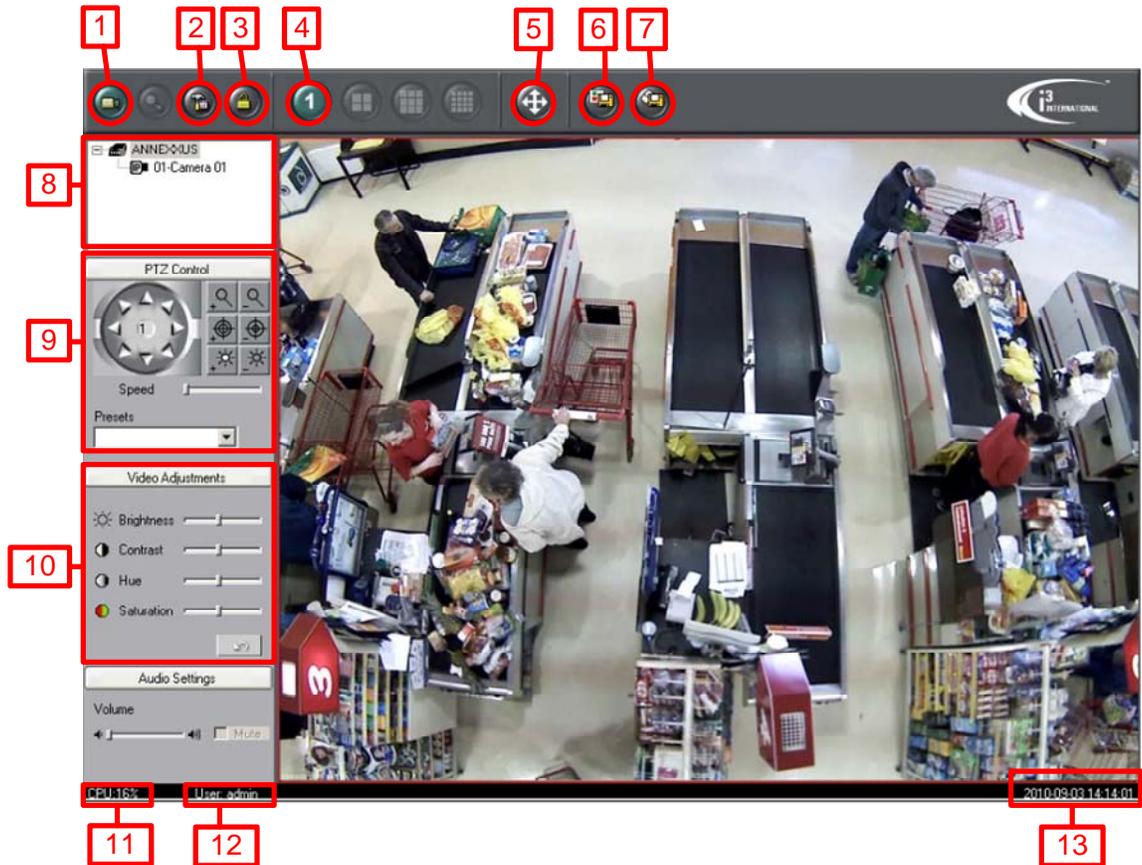
3.1 Introduction to Annexus Web Viewer

Annexus Web Viewer contains the following buttons and areas:

1. Live Mode
2. Setup Mode
3. Login/Logout
4. Single Camera Screen Division
5. Full Screen
6. Snapshot
7. Live Backup
8. ChannelsTree List
9. ePTZ Control Panel – *only applies to Ax32V2M series; disabled for Ax32VD1 Series*
10. Video Adjustments Panel – *only applies to Ax32V2M series; disabled for Ax32VD1 Series*
11. CPU Usage Indicator

12. Current User

13. Current Date and Time



Note: The Audio Settings panel at the bottom left of the live view screen is disabled, because neither the Ax32V2M series nor the Ax32VD1 series capture sound.

Note: The PTZ Control panel on the left side of the live view screen is disabled for the Ax32VD1 series, because this model does not support the PTZ or ePTZ function.

Note: The Video Adjustments panel on the left side of the live view screen is disabled for the Ax32VD1 series, because this model does not support the video adjustments function.

The Annexus Web Viewer contains the following buttons and areas:



Live Mode – displays the Annexus Live mode. In Live mode, the user can control the ePTZ function, adjust brightness/contrast/hue/saturation settings and save live snapshot or video backup onto the local media storage.



Setup Mode– displays Annexus setup options.



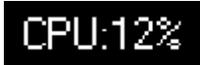
Full Screen - This button enlarges the live screen to fit your computer screen with no user interface (no menu bars shown). To exit press F11 on your keyboard.



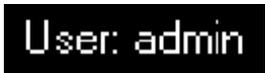
Live Backup - This button starts recording a backup video from the live network camera. The video is saved on local media storage. Each backup file will be saved as a separate file. Annexus Player is needed to play back the *.axv live backup video clips. For more information, see Live Backup section (s.3.4).



Live Snapshot – Clicking this button takes a snapshot of the live video screen. The snapshot will be saved onto local media storage. For more information see Live Snapshot section (s.3.5).



CPU Usage Indicator - displays the percentage of hard disk space used for video display.



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



Date and Time – displays the current date and time. This information is acquired from 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 and click **Apply**.



Video Adjustments panel (*Ax32V2M series only*) - adjusts Brightness, Contrast, Hue and Saturation of the live video channel. Click the **Undo** button to reset all parameters to the default settings.

3.2 Live Video Streaming

The network camera supports two simultaneous video streams: higher quality and higher compression. Main stream is usually set to higher resolution and higher quality, while sub stream is set to lower resolution and/or to lower quality. The user can switch between main and sub video streaming to either see a better quality video image or to be able to view a faster video stream over the Internet.

To select either the Main or Sub video stream for live viewing, right-click on the video screen and select either **Main stream** or **Sub stream** from the context menu.



3.3 Electronic Pan/Tilt/Zoom (ePTZ) - Ax32V2M series only

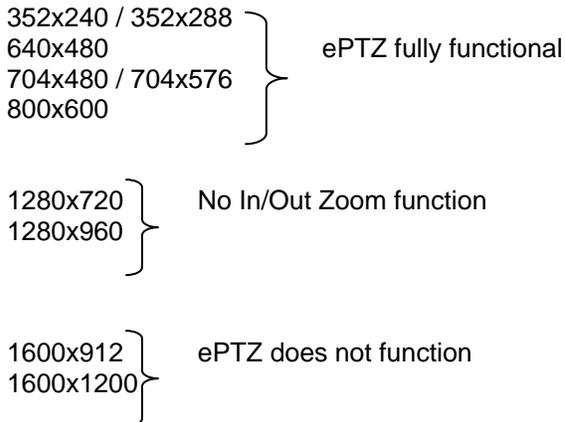
Through the Annexus Web Viewer, *authorized* users can control the Electronic Pan/Tilt/Zoom (ePTZ) function of the network camera remotely. The ePTZ function does not apply to the Ax32VD1 series model.

Make sure to properly connect the camera according to the Annexus connections diagram.

The network camera ePTZ can be controlled through the Annexus Web Viewer or through the SRX-Pro/iP-Pro software (*see SRX-Pro/iP-Pro software manual for more information*).

It is important to note that certain image resolution levels affect the functioning of ePTZ. On certain resolution levels ePTZ does **not** function at all. Figure 3.3 below indicates how resolution affects ePTZ:

Figure 3.3



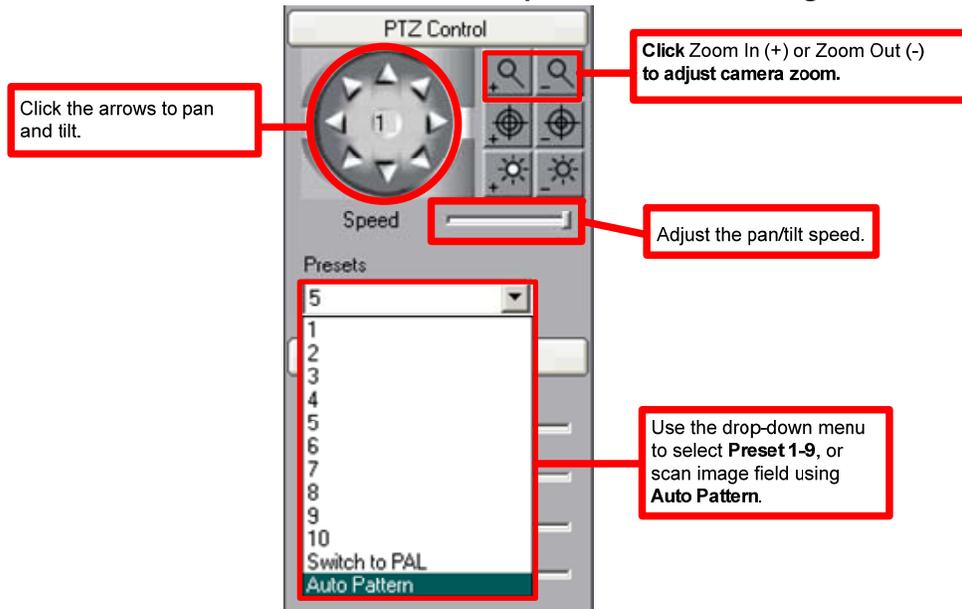
3.3.1 Controlling ePTZ

Note: ePTZ does not work in Full Screen mode. Press F11 to exit Full Screen.

Using the ePTZ control panel located on the left of the live video dashboard the user can:

1. Change the pan-tilt settings.
2. Zoom in and out.
3. Enable one of nine presets, or enable the Auto Pattern feature.

To control Zoom/Iris direction or activate presets, follow the diagram below:



To control the Pan/Tilt position of the camera:

1. Select a camera resolution level that enables ePTZ. See figure 3.3 above.
2. To use Pan/Tilt, the iris cannot be fully zoomed out. After zooming in partially or all the way, use the arrows on the ePTZ control wheel to pan and tilt.

Using the Presets

There are 9 preset iris positions to choose from. When using the Annexus Web Viewer, these presets are factory defaults and cannot be changed. Each preset, from 1-9, shifts the iris to a different preset position, changing the live image view. *Note that users can set the presets themselves when using SRX-Pro/IP-Pro.*

Auto Pattern

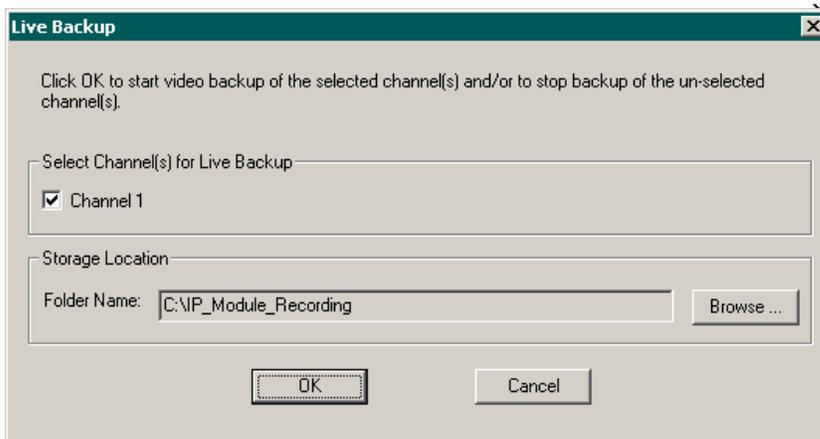
With Auto Pattern, the iris will continuously scan the view field from left to right. To use Auto Pattern the iris cannot be fully zoomed out. After zooming in partially or all the way, select Auto Pattern in the drop down menu.

3.4 Live Backup

Live Backup is the video recording feature of the network camera. It records onto the local PC storage (local HDD, network HDD, or USB storage device). Recorded video is saved in the *.axv format and can be played back with **Annexus Player 2.0**. *Note: The Annexus Player 2.0 application is included on the CD which accompanies the network camera – see Appendix B for instructions on using Annexus Player 2.0.*

To start Live Backup video recording:

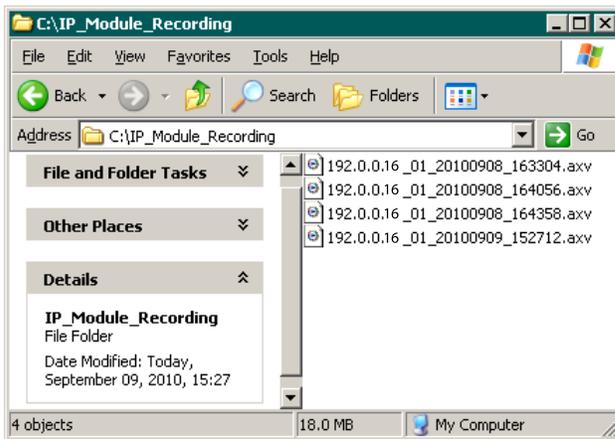
1. Click the **Live Backup** button on the main screen . The *Live Backup* window will be displayed.



2. In the *Live Backup* window, ensure the *Channel 1* box is checked off.

3. Select *Storage Location*. Click **Browse...**, locate and select the destination folder on a local or network hard drive, where the *.axv live video backup files will be stored. The default location is C:\IP_Module_Recording.

4. Click **OK** to start the live video backup. The **Live Backup** button on the main screen will turn blue to indicate that a live backup is in progress.  Each time a live backup is initiated, a new *.axv file is created in the storage location folder.

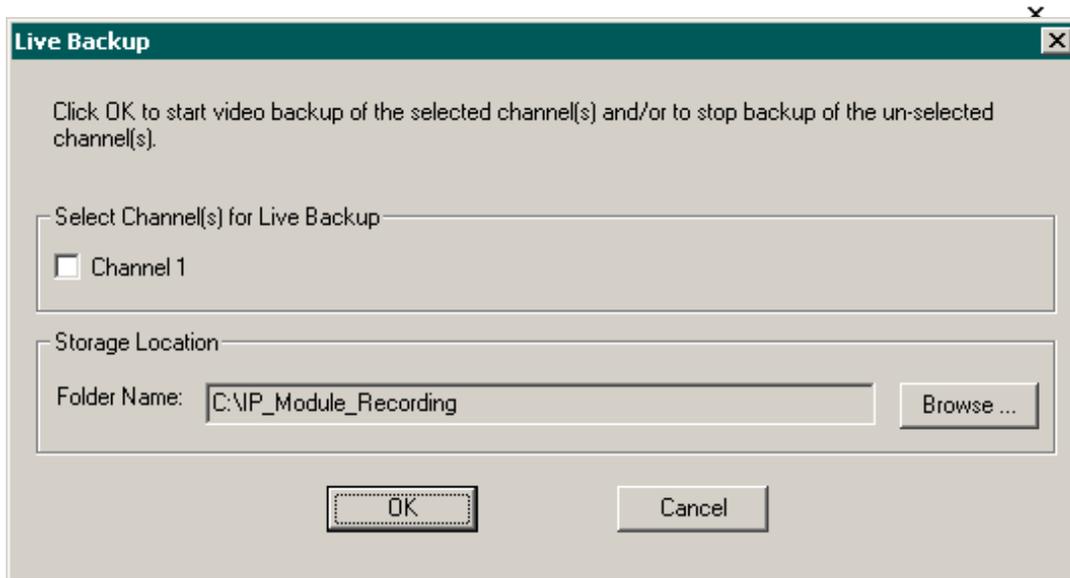


The video backup files are named according to the following standard:
IPADDRESS_CHANNEL_YYYYMMDD_HHMMSS.axv.

For example, the video file **192.0.0.16_01_20100909_152712.axv** was recorded from a Ax32V2M series network camera located on the 192.0.0.16 IP address (*the default IP address for the camera*), Video Channel 1, September 9, 2010 at 3:27PM.

To stop Live Backup video recording for one or more channels:

1. Click the **Live Backup** button on the main screen . The *Live Backup* window will be displayed.



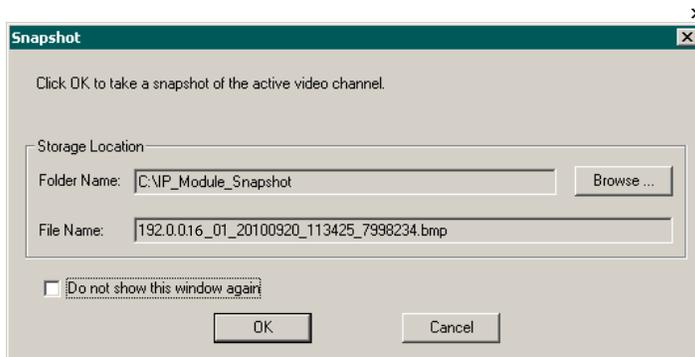
2. In the *Live Backup* window, ensure the *Channel 1* box is unchecked. If the Channel 1 box remains checked, recording will continue! Click **OK**. The Live Backup button will return to its normal colours (yellow on black)  to indicate that recording has stopped.

3.5 Taking a Live Snapshot

Live Snapshot takes an instant *.bmp snapshot of the video channel and saves it to the local PC storage (local HDD, network HDD, or USB storage device). The default location is C:\IP_Module_Snapshot. The saved *.bmp snapshots can be opened with any standard Windows image viewer.

To take a Live Snapshot:

1. Click the **Live Snapshot** button on the main screen . The *Snapshot* window will be displayed.



2. In the *Snapshot* window, select **Storage Location** . Click **Browse...** , locate and select the destination folder on a local or network hard drive, where the *.bmp live snapshot files will be stored. The default location is C:\IP_Module_Snapshot.

3. Make a note of the new snapshot File Name. Each snapshot is assigned a random number attached to the end of the file name to distinguish between snapshots taken within the same second.
5. Click **OK** to save the the *.bmp snapshot.

The snapshot files are named according to the following standard:

IPADDRESS_CHANNEL_YYYYMMDD_HHMMSS_RANDOMNUMBER.bmp.

For example, a 192.0.0.63_01_20100920_113425_7998234.bmp snapshot was taken from an Annexus 32VD14 network camera on the 192.0.0.63 IP address (default IP address), Video Channel 1, September 20, 2010 at 11:34:25 AM.

4 Appendixes – Annexus Finder

Annexus Finder locates all Annexus cameras on the network and displays important information about each individual device, including IP Address, Subnet Mask, Port number, Firmware version, and MAC Address. Use the Annexus Finder application to configure the IP Address and the Subnet Mask for the detected Annexus devices as well as reset the devices' passwords to the factory default **1234**.

4.1 Installing Annexus Finder

Each Annexus Network camera is accompanied by the Resource CD. Insert the CD into your system's CD drive. On the CD, locate and open the Annexus_Finder folder.

To install the Annexus Finder application, follow the steps below:

1. Double-click the **Setup.exe** file.
2. In the first setup window, click **Next**.
3. In the *Select Installation Folder* setup window, select installation drive and folder by clicking **Browse...** or keep the default installation folder (recommended). Select the **Everyone** radio button and click **Next**.
4. In *Confirm Installation* setup window, click **Next** to proceed with the installation.
5. Wait while the Annexus Finder software is installing onto the local system.
6. The WinPcap installation will be automatically launched. You must install WinPcap library for the proper functioning of the Annexus Finder application. In the *WinPcap 4.0.2 Installer* window, click **Next**.
7. In the following WinPcap installer window, click **Next**.
8. In the WinPcap *License Agreement* window, read the WinPcap license terms (scroll to read the entire document). Then click the **I Agree** button.
9. Wait while WinPcap is installing onto the local system. Wait for the *Installation Complete* setup window to be displayed and click **Close**. Annexus Finder is now installed on your system and is ready to use.

Important

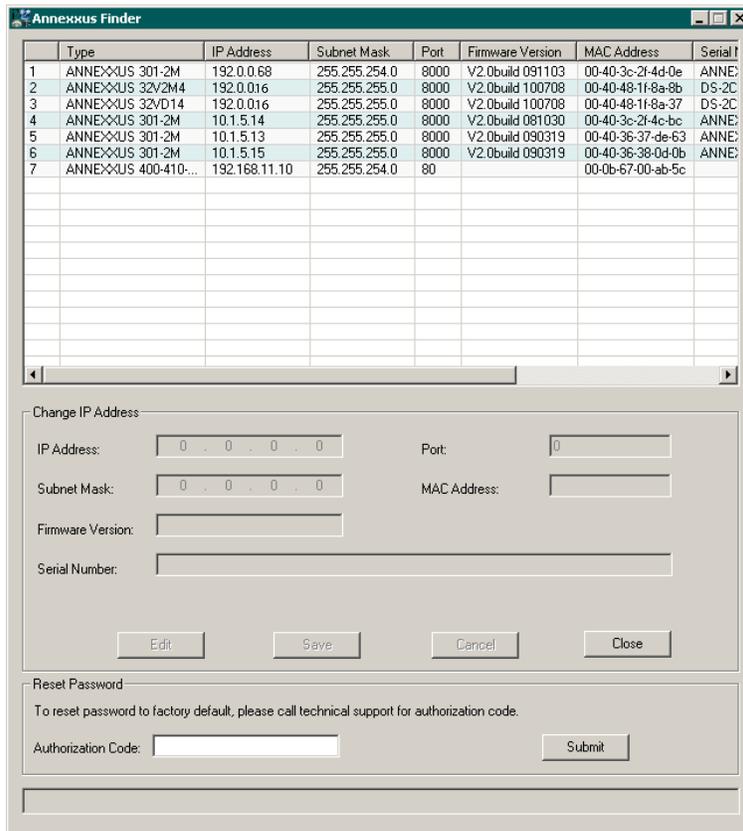
To virus protection software users: make sure to allow the WinPcap library to operate on your system.

4.2 Locating Annexus Devices

To launch the Annexus Finder application, double-click the **Annexus Finder** icon on the Desktop. For the Annexus-series User Guide, click the **Annexus Finder** icon in the top left corner of the Annexus Finder window and select **Help Index** from the drop-down menu.

Launch Annexus Finder. All Annexus Network cameras and 301-series devices on the network will automatically be detected and displayed in the Annexus Finder list. In the example below, Annexus Finder was able to locate three (3) Annexus network cameras, including Ax32V series camera on the local network.

By selecting a device in the list with the mouse cursor, detailed information about it will be displayed underneath: IP Address, Subnet Mask, Port, MAC Address, Firmware version, Serial Number.



4.3 IP Address/Subnet Mask Setup

To edit the IP Address and/or Subnet Mask for a Ax32V2M series or Ax32VD series (or other Annexus 301-series device):

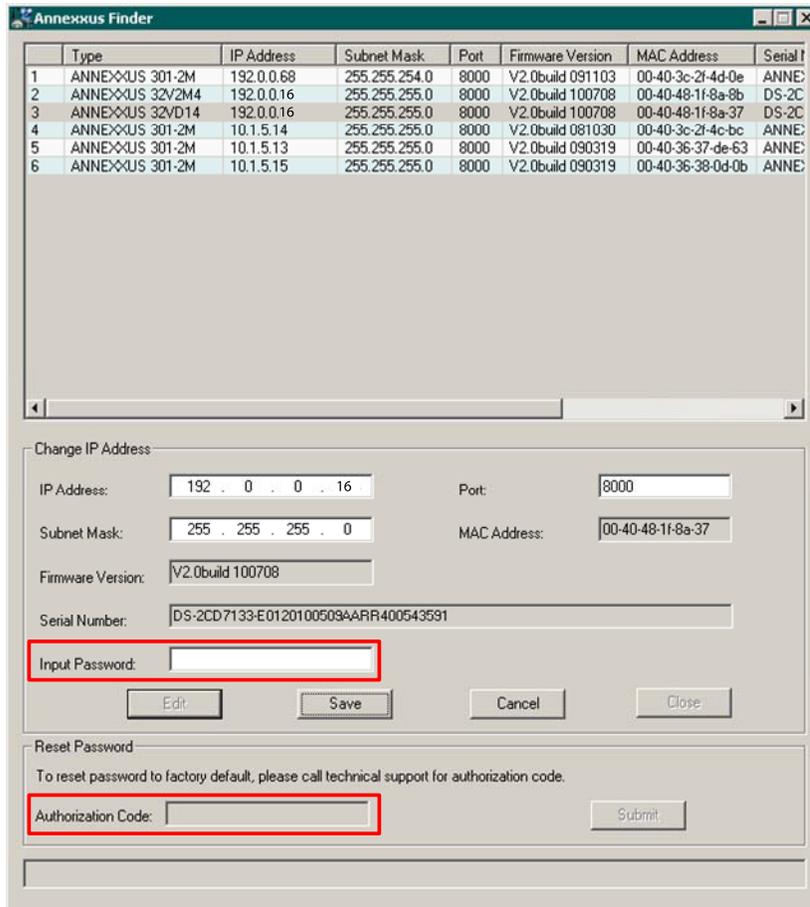
1. Select the desired device in the list
2. Click the **Edit** button. The *IP Address* and *Subnet Mask* fields will become enabled for editing.
3. Enter the device's new IP Address and Subnet Mask.
4. Enter the device's password and click the **Save** button.

4.4 Resetting Password to Factory Default

If an Annexus device's password is unknown or has been lost, it needs to be reset to the factory default setting before the device's IP Address and Subnet mask configurations can be changed.

To reset the device's password:

1. Contact our technical support department at 1.877.877.7241 or by email, at support@i3international.com.
2. Inform our technical support representative that the password for your Annexus device needs to be reset. Write down the **Authorization Code** provided to you.
3. Enter the **Authorization Code** obtained from our technical support representative into the corresponding field in the Annexus Finder window.
4. Click the **Submit** button. The device's password will be reset to the factory default setting:
1234



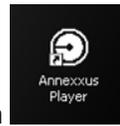
Appendix B – Annexus Player

The Annexus Player video application comes on the Resource CD that accompanies the Ax32V network cameras. Insert the CD into your system's CD drive. On the CD, locate and open the Annexus_Player folder.

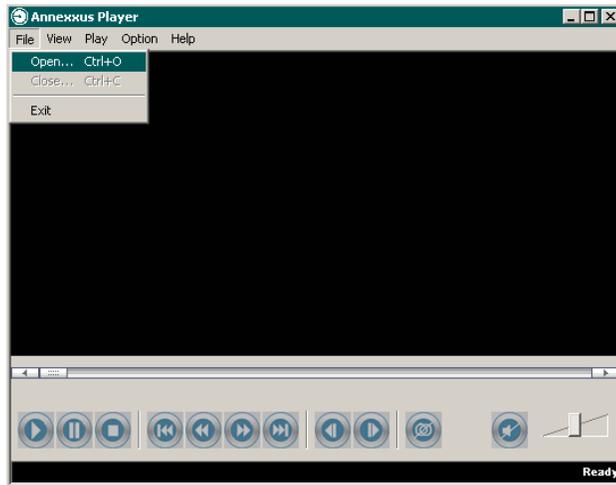
To install the Annexus Finder application, follow the steps below:

1. Double-click the **Setup.exe** file.
2. In the first setup window, click **Next**.
3. In the *Select Installation Folder* setup window, select installation drive and folder by clicking **Browse...** or keep the default installation folder (recommended). Select the **Everyone** radio button and click **Next**.
4. In *Confirm Installation* setup window, click **Next** to proceed with the installation.

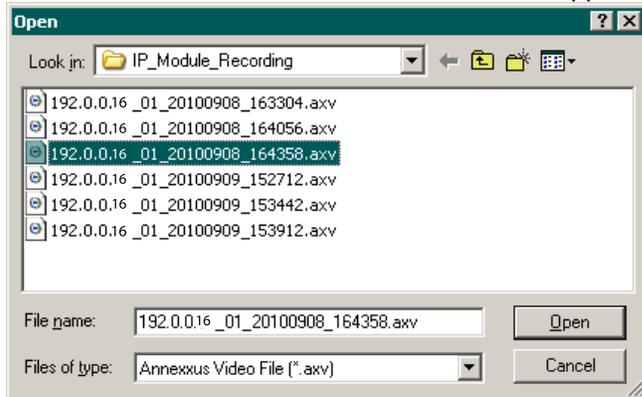
5. Wait while the Annexus Player software is installing onto the local system. In *Installation Complete* window, click **Close**.



6. Open Annexus Player by double clicking the icon
7. Once the *Annexus Player* window is open, click **File** at the top left of the screen, then click **Open**.



8. Select the desired video from the menu that appears and click **Open**.

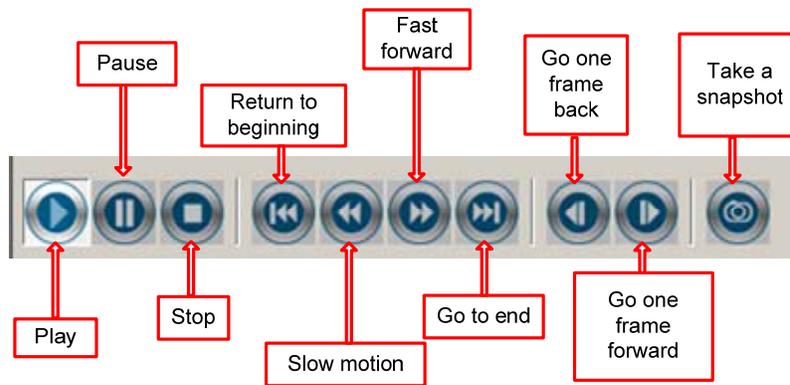


9. The video will begin to play.

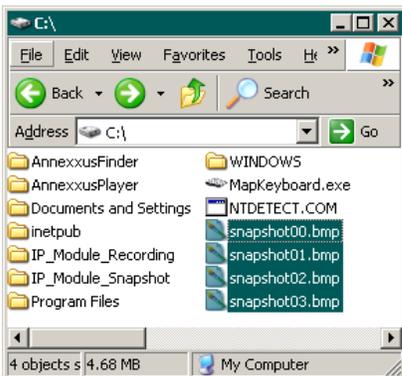


Note: the volume slider and mute button on the Annexus Player viewer do not function when recordings are done with the Ax32V2M series and Ax32VD1 series network cameras because these models do not capture sound.

7. Control the video using the buttons at the bottom of the Annexus Player viewer:



NOTE: The default storage file for snapshots taken with Annexus Player is not the same as for snapshots with the Annexus Web Viewer interface. Similarly, they do not follow the same naming standard. Snapshots taken from Annexus Player will automatically be saved to the C: drive and will be named snapshot01.bmp, snapshot02.bmp, etc. (For instructions on live video snapshots with the Annexus Web Viewer interface, refer to section 3.5 of this manual).



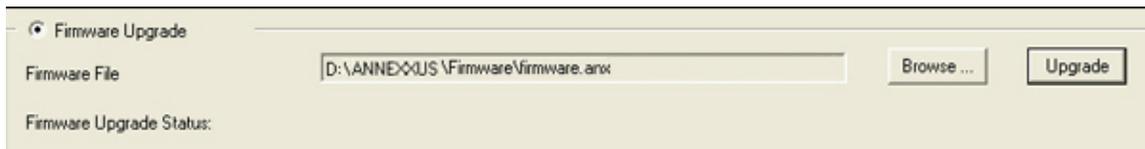
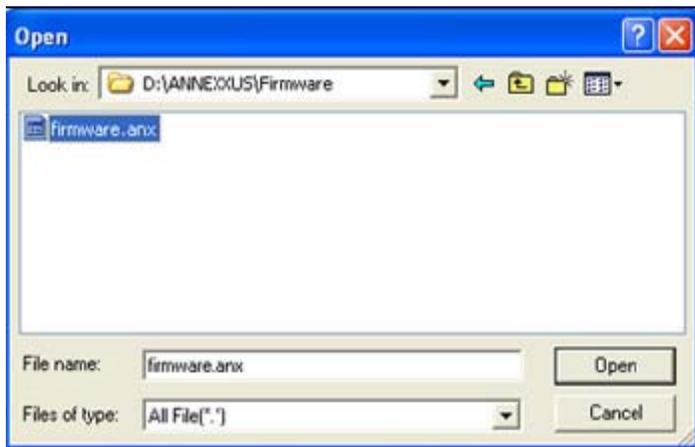
Appendix C- Upgrading Firmware

Annexus cameras and systems are always shipped with the newest available firmware and do not need a firmware update. However, in the unlikely event that the firmware will need to be upgraded in the future, follow the instructions below.

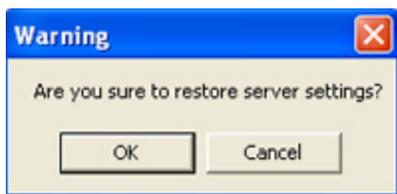
Important: Firmware may only be upgraded by the administrative user.

For firmware update:

1. Open the Annexus Web Viewer application.
2. Click the **Setup** button.
3. In the *Device Information* setup tab, select the **Firmware Upgrade** radio button.
3. Click **Browse...** and then locate and select the newest *.anx firmware file and click **Open**.



5. Click **Upgrade**. The remote Upgrade Status message will change to "Device is updating, please wait!"
6. Wait until the Status message changes to "Update completed!"
7. Click the **Restore** button in the bottom left corner of the *Setup* window to apply default settings from the new firmware package. All custom settings will be erased.
8. Click **OK** in the *Warning* message window shown below.



9. The "Upgrade completed, please reboot device!" message will be displayed. Click **OK** to close it.
10. Reboot the Annexus the camera.
11. Close the Annexus Web Viewer and open a new Internet Explorer window.
12. In the IE window, go Tools -> Properties. The *Internet Options* window will be displayed.

13. In the *Internet Options* window, click **Settings** under Browsing history. A *Temporary Internet Files and History Settings* window will be displayed.
14. In the *Temporary Internet Files and History Settings* window, click **View objects**. A *Download Program Files folder* window will be displayed.
15. Remove the i³ Annexus ActiveX control and re-connect to the Annexus camera via Internet Explorer.
16. Download new ActiveX control and log in. The new firmware and new firmware settings have now been applied to the Annexus network camera.