

Ax47R/67R-series User Manual



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

Ax47R/67R-series User Manual

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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.

Firmware: 02_49-101

Address:

i3 International Inc. 780 Birchmount Road, Unit 16 Scarborough, ON M1K 5H4 Canada

Contact us:

Tech Support: 1.877.877.7241 Email: support@i3international.com Web Site: www.i3international.com

1. Warnings and operation notes

Please read this guide carefully before you install the camera. Keep this guide for future reference.

Thank you for purchasing an i3 Ax47R/67R-series IR Outdoor Dome Camera. If the system needs to be modified or repaired, contact a certified i3 International Dealer/Installer. When serviced by unauthorized technician, the system warranty will be voided. Should you have any problems or questions regarding our products, contact your local i3 International Dealer/Installer.

> Camera's default IP address is **192.0.0.16** Camera's default Subnet mask address is **255.255.255.0.** Default camera User Name: <u>i3admin</u> and default Password: <u>i3admin</u>

1.1 Precautions

Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

<u>^</u>

WARNING! To reduce the risk of fire or electric shock, do not expose the product to rain or moisture.

When installing your Ax47R/67R camera, be sure to avoid:

- · excessive heat, such as direct sunlight or heating appliances
- contaminants such as dust and smoke
- strong magnetic fields
- · sources of powerful electromagnetic radiation such as radios or TV transmitters
- moisture and humidity
- areas with mechanical vibrations
- · fluorescent lamps or objects that reflect light
- · unstable light sources as this may cause flickering
- temperatures below -20°C (-4°F) and above 50°C (122°F)

1.2 Power

This camera supports PoE power only. IEEE 802.3af Class 3, max load of 8.5W. Incorrect voltage may cause irreparable damage to the video camera and will effectively void the camera warranty. For PoE power, insert the RJ45 cable into the RJ45 jack on the camera's cable. Connect the other end of the RJ45 cable to a compatible PoE switch/hub/router. Use the included RJ45 waterproof connector assembly for outdoor installations.

1.3 Cleaning

- For maximum optical clarity, the camera or lens must remain clean. Use a soft, dry cloth to remove finger prints and dust from the dome cover.
- Use a blower to remove dust from the lens.
- Clean the body with a soft, dry cloth. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene, or thinners, as they may damage the surface finish.

1.4 Servicing

To avoid electrical shock and to preserve the product warranty, DO NOT disassemble the camera. Refer servicing to qualified personnel only.

1.5 Routine Maintenance

- The dome bubble is an optical part. Use a soft and dry cloth to remove any fingerprints and dust.
- Clean the camera housing with a soft and dry cloth. For more stubborn marks, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- CAUTION: Do not use volatile solvents such as alcohol, benzene or thinners, as they may damage the surface finish.

2. Unpacking

Ensure that the items received match those listed on the order form and the packing slip. In addition to this manual and a fully assembled camera, the dome camera packing box includes:

- 1. Drill Template sticker x1
- 2. Torx key x1
- 3. Plastic Anchor x3
- 4. Round Head Screw (Tapping type) x3
- 5. Desiccant (attach to the inside of the Inner Liner) x1
- 6. 3-ft network cable x1

If any parts are missing or damaged, contact the dealer you purchased the camera from.

*Note: Based on installation location and surface type, supplied screws and anchors may not be adequate. Mounting hardware is site-specific and may need to be supplied by the installer.

2.1 Accessories (not to scale)



5

3. Dimensions & Parts Identification

This dome camera is suitable for both indoor and outdoor installation in commercial and residential environment. With 3-axis mount support, it provides flexible installation on a ceiling or wall, even on an angle. The dome camera is a fully integrated enclosure with camera and lens.



- 1. Mounting holes (x3)
- 2. Dome bubble housing / Dome cover
- 3. Screws securing the dome bubble housing to camera module (x3, silver)
- 4. Lexan bubble
- 5. Screws attaching camera module to the camera base (x4, black)
- 6. Tilt bracket with two locking screws. Loosen the screws and tilt to adjust lens angle.
- 7. Inner liner / Shroud. Attach the desiccant to the inside of the Inner Liner, without obstructing the lens movement.
- 8. IR board
- 9. Camera Lens Assembly. Pan to adjust lens angle.
- 10. Lens base. Rotate to adjust lens angle.
- 11. Camera lens.
- 12. RJ45 Ethernet PoE Port with waterproof RJ45 connector assembly. Insert an Ethernet cable into the port for network connection as well as PoE (Power over Ethernet) capability. To maintain water-resistant rating in outdoor installations, make sure to use the included waterproof RJ45 Connector assembly.
- 13. Reset/Default button. Press for 1 second to reboot the camera. Press for 6 seconds to restore camera settings to factory defaults.
- 14. MicroSD Card slot for on-camera video storage. (MicroSD card sold separately).

4. Installation

Ax47R/67R camera series can be wall, surface, or T-bar ceiling mounted without additional mounting accessories/brackets.

Start by marking out and preparing the mounting surface. Attach the supplied mounting template to the mounting surface. Use the appropriate brackets and equipment to mount the camera. Depending on the type of installation, additional mounting accessories may need to be purchased.

After installing the camera, your network camera must be accessible from your local network (LAN).



Important. Please Read:

- It is the installer's responsibility to ensure that the mounting surface is suitable for the chosen installation method.
- Based on installation location and surface type, supplied screws and anchors may not be adequate.
- Mounting hardware is site-specific and may need to be supplied by the installer.

Optional Mounting Accessories:

- Ax61BB (Back Box 3/4" & 1/2" NPT). Use for Horizontal wall mount, pendant mount, pole or corner mount.
- DB60 (Goose Neck Wall Bracket 3/4" NTP). Together with the optional DB60CPM bracket, DB60 goose neck bracket has the capability of being corner or polemounted.
- DB60CPM (Corner / Pole Mount bracket for DB60)

i3-TRNG-CAMS-Ax47R_67R-UM.indd

4.1 Disassembling the Camera

Before mounting and adjusting the camera, follow these steps to disassemble the camera.



- 1. Use the provided security Torx key to loosen three screws securing the dome bubble housing to camera module. Do not completely remove the screws from the dome bubble.
- 2. Gently pull the dome bubble downwards and set aside.

4.2 Applying the Desiccant

Apply the desiccant to the inside of the Inner liner (Shroud). Make sure it does not interfere with the movement of the lens assembly.



4.3 3-Axis lens position adjustment

Pan Adjustment

Rotate the lens base (max 360°) until satisfied with the field of view. **Note:** Over-rotation past 360° will cause internal cables to become damaged, disconnected, or twisted.

Horizontal Rotation

Firmly grasp the camera lens assembly and rotate counter-clockwise / clockwise (max 350°) until satisfied with the field of view.

Note: Over-rotation past 350° will cause internal cables to become damaged, disconnected, or twisted.

Tilt Adjustment

Tilt the camera lens until satisfied with the field of view.

Once the desired view has been achieved, replace the camera liner until it snaps into place.



4.4 Surface Mounting

This installation method is suitable for both indoor and outdoor applications.



- . Attach the supplied Drill Template to the mounting surface.
- Drill 3 (three) 4.5 mm (0.2") holes at the marked template positions on the mounting surface.
- 3. Insert the supplied screw anchors into the holes on mounting surface.
- Based on installation requirements, you may route the cable through the cutout opening on the side of the camera's mounting base. In that case, no additional openings are required on the mounting surface. Alternatively, drill a 13mm (0.5") circular opening in the mounting surface, corresponding to the "Cable hole" of the drill template. See section 4.4 fore more info.
- Disassemble the camera by removing the dome bubble. Use the provided security Torx key to loosen three silver screws securing the dome bubble to the camera's mounting base. Do not completely remove the screws from the bubble. Lift the dome bubble off and set aside.
- 6. Route the camera cabling according to installation requirements, then use a Phillips screwdriver to secure the camera module to the mounting surface with the provided mounting screws, if suitable.
- 7. Connect the wiring.
- 8. Adjust the lens angle by rotating and panning the camera lens base. Do not overrotate the camera lens beyond the stop point to avoid damage to the camera. *See section 4.1 for more info.*

Tip: For the ease of setup, lift off the camera liner while adjusting the lens position. Once the desired view has been achieved, replace the camera liner until it snaps into place.

- 9. Replace the camera dome bubble housing on top of the camera module.
- 10. Use the supplied Torx bit to re-tighten 3 silver screws securing the dome bubble housing to the camera module.
- 11. Remember to use sealant to maintain IP67 rating in outdoor installations.

4.5 Mounting w/ Ax61BB Back Box (optional)

The Ax61BB is an optional extension back box for cable management and surface mounting. Ax61BB back box is also needed for pendant or horizontal wall mount installations (additional mounting accessories required). Ax61BB back box is compatible with i3's optional DB60 (Goose Neck Wall Bracket). EMT 3/4" Pipe can be used in combination with Ax61BB for pendant mounting.



- 7. Secure the camera module to the Ax61BB back box with three screws (not provided with the camera).
- Pull the camera cable through the opening in the Ax61BB housing. Feed the CAT5/6 cable through the supplied waterproof RJ45 connector assembly before crimping and plugging in.
- 9. Connect all wiring.
- Adjust the lens angle by rotating and panning the camera lens base. Do not over-rotate the camera lens beyond the stop point to avoid damage to the camera. See Section 4.1 for more info.
 Tip: For the ease of setup, lift off the



camera liner while adjusting the lens position. Once the desired view has been achieved, replace the camera liner until it snaps into place.

- 11. Replace the camera dome housing on top of the camera module.
- 12. Use the supplied Torx bit to re-tighten 3 silver screws securing the dome bubble housing to the camera module.

4.6 Camera Wiring Options

Based on installation requirements, you may route the cable through the cut-out opening on the side of the camera's mounting base (Option A) or through the pre-drilled opening in the surface (Option B). For Option B, drill a 13mm (0.5") circular opening in the mounting surface, corresponding to the "Cable hole" of the drill template.





Option B

5. Connecting to the SRX-Pro Server

5.1 Camera Connection Options



5.2 Hardware/Software Requirements

The following requirements must be met to achieve a successful network connection with the Ax47R/67R-series IP camera.

SRX-Pro Server:

- i3 SRX-Pro Version 3.3.3 or higher
- Latest GiPi adapter is installed. GiPi adapters can be downloaded from i3 FTP website. (Please contact i3 Technical Support for more information.)
- Windows 7 Pro or 7e
- Internet Explorer Version 8.0 or later, or latest-available Firefox IE8 and IE9 Limitations: No Logs setup page.
- CPU: Intel Pentium Core 2 or higher
- Memory: 1GB or more
- VGA card supporting Direct X 9.0 or above

Power Supply

Your camera requires PoE power supply. Use a RJ45 network connector to connect the camera to your computer or hub switch.

Note: Camera damages resulted from improper power application are NOT covered by the camera warranty.

Switch

A Gigabit Switch is required to monitor two or more cameras from the same SRX-Pro Server.

5.3 RTSP Stream Information

Camera's RTSP stream URL information is as follows: Stream 1>> rtsp://192.0.0.16:554/stream1 Stream 2>> rtsp://192.0.0.16:554/stream2 Stream 3>> rtsp://192.0.0.16:554/stream3

5.4 Configuring Internet Explorer for Video Display

Your Internet Explorer (v.10.0 or higher) must first be configured in order to properly display video stream from your Annexxus camera.

Follow these instructions to configure your Internet Explorer browser.

Enable Cookies

- 1. In Internet Explorer window, click Tools -> Internet Options
- 2. Open Privacy tab, move the slider to "Low" or "Accept All Cookies"
- 3. Click **Apply.** Do not close the Internet Options window.

Adjust Internet Security Settings

- 4. Open **Security** tab in the Internet Options window
- 5. If the camera operates inside of the Intranet, click the Intranet icon; If the camera operates outside of the Intranet, click the Internet icon.
- 6. Click **Custom Level.** Security Settings Internet Zone window will be displayed.
- 7. Scroll down to the **ActiveX controls and plug-ins** radio buttons and configure as follows:
 - » Automatic prompting for ActiveX controls -> Enable
 - » Download signed ActiveX controls -> Prompt (recommended)
 - » Download unsigned ActiveX controls -> Prompt
 - » Initialize and script ActiveX not marked as safe for scripting -> Prompt
 - » Run ActiveX controls and plug-ins -> Enable
 - » Script ActiveX controls marked safe for scripting -> Enable
- 8. Click **OK** to save the Internet Security Settings
- 9. Close all Microsoft Internet Explorer Windows and open a new IE window. This will allow the new settings to take effect.

5.5 Changing Camera's Default IP

Camera's default IP address is **192.0.0.16** Camera's default Subnet mask address is **255.255.255.0.** Login: **i3admin** / PW: **i3admin**

To connect your Annexxus camera to your SRX-Pro Server, follow these instructions:

- 1. Close SRX-Pro Server software by pressing Alt+Shift+Ctrl+F4.
- 2. Write down the IP address of the onboard NIC (LAN) (or of NIC1 if your SRX-Pro Server has two onboard NIC cards).
- 3. Connect your camera to i3 Server (See Section 5.7 for more info).

- 4. Turn on your Annexxus camera.
- Launch the CD that came with your Annexxus camera and double-click "AnnexxusConfigurationTool.msi" file to install Annexxus Configuration Tool (ACT) application. ACT application discovers all Annexxus cameras connected to your network.
- Follow the ACT installation instructions until the application has been successfully installed on your SRX-Pro Server.
- 7. Double-click i3 Annexxus Configuration Tool icon on the Desktop to launch the ACT application. Accept the ACT license agreement.



- 8. ANNEXXUS Configuration Tool window will display a list of active network cameras.
- Select the desired Annexxus camera in the list (left-click).
- 10. In the **Device(s)** Communication

area, enter the new IP Range (address) and Subnet Mask of the camera. The new camera IP address must match the IP range of your SRX-Pro LAN or NIC1 card (see Step 2). E.g. If your SRX-Pro Server's IP address is

_	ALL MODELS 🔻	IP Address	Subnet Mask	📿 Result	
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6	
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0		
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6	
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6	
	ANNEXXUS 65RM		255.255.255.0	<u>@</u>	
	ANNEXCUS 65RM	192.0.0.16	255.255.255.0	6	
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6	
	ANNEXCUS 65RM	192.0.0.16	255.255.255.0	1	
	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6	
oba	I Camera Settings	All Cameras	 Selected Cameras 		
Def	ault Account Username		Password		
: .	e(s) Communication				

Do you want to apply the new settings to selected device(s)?

Yes

192.138.10.122, change your Annexxus camera's IP address to 192.138.10.XXX. Remember: Annexxus Cameras cannot share an IP address, each camera requires its own unique IP address.

- 11. Make sure the **Default Account** checkbox is checked off.
- 12. Click **Update**. Then click **Yes** in the confirmation window.
- 13. Wait a few moments for a successful confirmation message.

(i		US Configuration To	ool			-	¢
	ALL MODELS 🔻	IP Address	Subnet Mask	Ð	Result		1
1	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	<u></u>			
2	ANNEXXUS 65RM	192.168.10.100	255.255.255.0		Success		
3	ANNEXXUS 65RM	192.0.0.16	255.255.255.0	6 1			

14. Repeat Steps 9-13 for all detected Annexxus cameras in the ACT application OR Select multiple cameras (Ctrl + left-click) and enter IP range to assign IP addresses sequentially to the selected cameras.

No

5.6 Viewing Camera in IE browser

Once the IP address of the Annexxus camera(s) has been changed, make sure you can connect to the camera(s) through Internet Explorer.

- 1. Launch Internet Explorer by double-clicking the IE icon next to the desired camera in the ACT **explorer**. The password window will be displayed.
- 2. Enter the default camera User Name: i3admin and Password: i3admin.

Windows Securit [,]	/	×
The server 192.1 and password.	68.10.100 at Authentication Login requires a username	-0
	i3admin	
	Remember my credentials	
	OK Cancel	1

- 3. Annexxus camera interface will be displayed in the Internet Explorer window.
- 4. If you have not connected to an Annexxus camera via IE before, you will see the following ActiveX download message.

Note: If you do not have VC++ 2008 Redistributable installed on your unit, you must do that first. Once VC++ 2008 has been downloaded and installed, click on the ActiveX plug-in link in the Download message.

Please download **ActiveX plug-in here**. Please download VC++ 2008 Redistributable installation package here. When the plug-in has actually fully finished downloading, Please close all web browser windows and install the plug-in.

5. Click **Run** or **Save** in the download confirmation message at the bottom of the screen.

Do you want to run or save i3WebComponents.msi (2.69 MB) from 192.168.10.100 ? Run Save 🔻 Cancel 🗙

- Launch the downloaded WebComponents.msi file, close your IE browser window and follow the installation instructions. Click **Finish** to close the final installation screen. This step must only be done once.
- Repeat Step 1 to launch Internet Explorer for your Annexxus camera again. The camera's live video stream will now be seen in the Live View screen.
 If you do not see the camera image on the screen, call i3 International tech support for troubleshooting tips: 1.877.877.7241.

5.7 Adding your IP Camera to your SRX-Pro Server

- 1. Make sure that the latest version of GiPi adapter is installed on your SRX-Pro Server. Once the latest GiPi adapter has been installed, restart i3 SRX-Pro Server. Download the most recent GiPi from <u>http://i3international.com/download</u>.
- 2. Log In and go to the **Setup** > **IP Camera** tab.
- 3. Click the **Search & Add** button to display connected Annexxus cameras on the network.

Q Search & Add

4. Select the desired camera in the list and click **Select**.

earch Foi	r IP Cam	era			
	Select	: Model i3 GiPi			▼ 1/4
In Use	Index	Model	IP Address	Port	Mask
	1	ANNEXXUS 67R	192.168.11.201	80	255.255.254.0
Ø	2	ANNEXXUS 67R	192.0.0.151	80	255.255.255.0
\oslash	3	ANNEXXUS 67R	192.0.0.67	80	255.255.255.0
	4	ANNEXXUS 67R	192.168.11.202	80	255.255.254.0
				Se	elect Close

 In the Select IP Camera window he default camera User Name: i3admin and Password: i3admin and click Add. Selected camera will be added to the IP Camera list.

Select IP Camera		
IP Camera Info		
Model	i3 GiPi Search	User Accounts User Name
IP Address	192.168.11.201 ANNEXXUS -	Password
Port:	80 Streaming Options UDP +	
Server MAC	18:f8:7a:03:1d:9b	
Server Subnet	255.255.254.0	
Server Gateway	192.168.10.1	
Video Input	1 Select All	
Name		
		Add Close

6. Assign the IP camera to the SRX-Pro video channel in the Ch. In. column.

Camera	IP Address	Input	Resolution		FPS	Ch In.	
📮 All Cameras							
ANNEXXUS 67R	192.0.0.151 (80)	1	2048x1536	~	10 ≑	1. Channel 1	-
ANNEXXUS 67R	192.0.0.67 (80)	1	2048x1536	~	10 ≑	2. Channel 2	-
ANNEXXUS 67R	192.168.11.201 (80)	1	2048x1536	~	10 ≑		-
						3. Channel 3 4. Channel 4 5. Channel 5 6. Channel 6 7. Channel 7 8. Channel 8 9. Channel 9 10. Channel 10	
						11. Channel 11 12. Channel 12	

7. Click the Save button in the bottom right-hand corner to save settings.



8. Your Annexxus camera is now connected to SRX-Pro Server and is ready to record. You may change resolution and frame rate for the Annexxus camera in the IP Camera tab menu or you may choose to configure the camera's advanced settings through the IE browser. (*See Section 6.0 for more info*).



Remember to configure the video Channel's recording schedule under SRX-Pro Schedule tab.

6. Advanced Camera Setup via IE

- To access Annexxus camera's Advanced Setup, go to Setup > IP Camera tab, select the camera in the list of added IP cameras and click the Web Setup button.
- 2. Enter the default camera User Name: i3admin and Password: i3admin.
- 3. If you have not connected to an Annexxus camera via IE before, *see Sections 5.4 and 5.6 for more info.*



6.1 Main Screen

Use Brightness, Contrast, Saturation, Hue and Sharpness sliders on the Main screen to modify camera's live video stream appearance. Click **Save** to save new settings or click **Default** to return video adjustments to factory settings.





Live Mode. Click to view camera's live video.



Search Mode. Shown only when SD card is plugged in (sold separately). Click to search, preview and download video clips recorded on the SD card. Unavailable to "User" type accounts.



Setup Mode. Click to view and configure camera's settings. Unavailable to "User" type accounts.



Logout. Click to log out of the current account or to switch accounts. Click OK in the confirmation message. Enter your credentials in the Login window to log back in.



Full Screen. Click to hide the menu panels. Press Esc to exit Full Screen mode.



Save Snapshot. Click to save a JPG or PNG snapshot of live video to a local folder. In Save As window, select JPG or PNG file type, select the folder and click Save. Unavailable to "User" type accounts.



Save AVI. Click to start live AVI backup recording to a local folder. In Save As window, select the folder and click Save. Click the same button again on the Main Screen to stop recording and end the AVI file. Unavailable to "User" type accounts.

6.2 Basic Setup

Click the Setup button to access Annexxus camera Setup features.

You may switch to the Advanced Setup mode at any time by clicking the

Advance Setup button in the bottom left-hand corner. To switch back to the Basic Setup, click the Basic Setup button.

Configure the camera's Primary and Secondary video streams in Basic Setup. After making any setting adjustments, click the **Save** button.





Stream 1 - Primary Streaming:

- Video Codec: Set the compression mode to H264 (recommended) or MJPEG.
- Resolution: Set the primary stream resolution of the recorded video to: QXGA (2048×1536) - Ax67R only, Full HD (1920×1080) - Ax67R only, Quad VGA (1280×960), HD (1280×720), SVGA (800×600)
- **Frame Rate:** Set the frame rate for the primary stream recording. Available frame rate settings: 1, 3, 7.5, 10, 15, 30 fps or choose Custom and enter frame rate.
- VBR Max bit rate / CBR bit rate (for H264): Set the video bit rate between 64-20000 kbit/s. Default value is dependent on the Resolution and Frame Rate.
- H264 GOP (I-Frame Interval): Provide a value from 1-60. The default value will follow the Frame Rate.
- **H264 Rate Control Mode:** (for H264 codec): VBR (Variable Bit Rate) or CBR (Constant Bit Rate).
 - » VBR (Variable Bit Rate) (recommended): This setting will produce a variable bit rate video stream, however the video quality will remain constant resulting

in high guality video images. Network infrastructure must be able to provide the set bandwidth to account for bit rate variations.

- **CBR** (Constant Bit Rate): This setting will produce a constant bit rate video » stream at the cost of video quality. The quality may deteriorate considerably. This setting is beneficial for installations with limited bandwidth.
- Quality (for MJPEG codec): Low, Mid (default), High

Stream 2 - Secondary Streaming:

Secondary streaming is used for Live Viewing, Remote Streaming (VPC, SRX-Pro Remote, SRX-Pro Mobile) and in split-screen display mode. SRX-Pro v.6.0 and above also allows recording Primary (Main) stream only, Secondary (Sub) stream only, or both. Backup can also be created for either Main or Sub stream recording in SRX-Pro or VPC.

- Video Codec: Set the compression mode to H264 or MJPEG.
- **Resolution:** Set the secondary stream resolution of the recorded video to: SVGA (800×600), 720x480 (D1), 360x240 (CIF) or none (to disable secondary streaming).
- Frame Rate: same as Primary Streaming •
- VBR Max bit rate / CBR bit rate (for H264): same as Primary Streaming •
- H264 GOP (I-Frame Interval): same as Primary Streaming •
- H264 Rate Control Mode: same as Primary Streaming •
- Quality (for MJPEG codec): same as Primary Streaming

6.3 Video Setup

Switch to the Advanced Setup by clicking the **Advance Setup** button on the bottom left-hand corner of the screen as shown on the previous page. The Setup screen will change to reveal multiple setup tabs. Video setup tab is displayed by default.

amera Settings			1.44		
Camera Name:	Ax67R2			1	
Mirror:	Off	~			and a local
Corridor:	Off	×	Contraction of the	AND STREET IN	AND AND AND AND
Stream 1 - Primary Stream	ning				ALL AND ADDRESS
Video Codec:	H264	×		JP / 10.	
Resolution:	2048×1536				-
Frame Rate:	10	✓ fps			
VBR Max bit rate:	4736	(kbit/s)[64-20000]			
H264 GOP:	10	[1-60]			
H264 Rate Control Mode:	VBR		and the sugarous		
Stream 2 - Secondary Str	eaming		and the second second		
Video Codec:	H264			A Maria	
Resolution:	360x240				
Frame Rate:	10	✓ fps	Enhanced H.264 Sett	ings	
VBR Max bit rate:	128	(kbit/s)[64-20000]	Enable:	Off	~
H264 GOP:	10	[1-60]	Level:	Mid	
H264 Rate Control Mode:	VBR		Mode:	EcoZone	
Stream 3 - Third Streamir	'g				
Video Codec:	H264	~	Advance Settings		
Resolution:	800×600	V	White Balance:	ATW	~
Frame Rate:	30	▼ fps			
VBR Max bit rate:	1696	(kbit/s)[64-20000]			
H264 GOP:	30	[1-60]			
H264 Rate Control Mode:	VBR				
Frame Rate: VBR Max bit rate: H264 GOP:	30 1696 30	<pre>fps (kbit/s)[64-20000] [1-60]</pre>	White Balance:	JATW	

Camera Settings:

- **Camera Name:** Enter a descriptive name for your camera.
- **Mirror:** Flips the video image. The options for Mirror setting are:
 - » **Flip**: flip images upside-down.
 - » **Mirror**: flip images left to right.
 - » **Both**: flip the image upside-down AND from left to right.
 - » **Off**: Disables the Mirror feature
- **Corridor:** Set to **On** (enable) or **Off** (disable). When enabled, Corridor video format rotates video image for a vertically-oriented, "portrait" video stream. This format is meant for surveillance situations where the monitored area is more vertical than horizontal in shape. E.g. hallways, staircases, tunnels, etc. In these applications the sides of the typical landscape video format image often include unnecessary area, such as walls. This unneeded video data also leads to wasted bandwidth and storage space. Corridor video mode eliminates the unnecessary portions of the field of view in those installations.

Triple Video Streaming:

Annexxus 47R and 67R cameras support triple H264/MJPEG streaming, each stream can be configured separately:

- **Primary Streaming (Stream 1)** is used by SRX-Pro Server for video recording and live streaming in full-screen mode. Only Primary streaming supports maximum resolution of up to 1.3MP/3MP.
- **Secondary Streaming (Stream 2)** is used for Live Viewing, Remote Streaming (VPC, SRX-Pro Remote) and in split-screen display mode. Lower resolution settings are supported.
- Third Streaming (Stream 3) is disabled by default. Enable and set to MJPEG to use for camera edge microSD recording. Where Stream 2 is disabled, Stream 3 will be used by SRX-Pro Server. Lower resolution settings are supported.

Note: After enabling/disabling a video stream, the camera must be manually restarted to apply changes. Otherwise, the stream changes will not be recognized by the SRX-Pro Server software.

Stream 1 - Primary Streaming:

- Video Codec: Set the compression mode to H264 (recommended) or MJPEG.
- Resolution: Set the primary stream resolution of the recorded video to: QXGA (2048×1536) - Ax67R only, Full HD (1920×1080) - Ax67R only, Quad VGA (1280×960), HD (1280×720), SVGA (800×600)
- **Frame Rate:** Set the frame rate for the primary stream recording. Available frame rate settings: 1, 3, 7.5, 10, 15, 30 fps or choose Custom and enter frame rate.
- VBR Max bit rate / CBR bit rate (for H264): Set the video bit rate between 64-20000 kbit/s. Default value is dependent on the Resolution and Frame Rate.

- **H264 GOP** (I-Frame Interval): Provide a value from 1-60. The default value will follow the Frame Rate.
- **H264 Rate Control Mode:** (for H264 codec): VBR (Variable Bit Rate) or CBR (Constant Bit Rate).
 - **VBR** (Variable Bit Rate) (recommended): This setting will produce a variable bit rate video stream, however the video quality will remain constant resulting in high quality video images. Network infrastructure must be able to provide the set bandwidth to account for bit rate variations.
 - » CBR (Constant Bit Rate): This setting will produce a constant bit rate video stream at the cost of video quality. The quality may deteriorate considerably. This setting is beneficial for installations with limited bandwidth.
- Quality (for MJPEG codec): Low, Mid (default), High

Stream 2 - Secondary Streaming / Stream 3 (Third Streaming):

Secondary streaming is used for Live Viewing, Remote Streaming (VPC, SRX-Pro Remote, SRX-Pro Mobile) and in split-screen display mode. Third streaming can be set to MJPEG compression and used for camera edge recording. SRX-Pro v.6.0 and above also allows recording Primary (Main) stream only, Secondary (Sub) stream only, or both. Backup can also be created for either Main or Sub stream recording in SRX-Pro or VPC.

- Video Codec: Set the compression mode to H264 or MJPEG.
- Resolution: Set the resolution of the recorded video to: 800x600, 720x480, 360x240 (Stream 2) / 800x600, 704x480, 352x240 (Stream 3). To disable the stream, select none. Note: i3 Recommends keeping the default factory streaming settings. You may

choose to enable Third stream (MJPEG) for camera edge recording.

- Frame Rate: same as Primary Streaming
- VBR Max bit rate / CBR bit rate (for H264): same as Primary Streaming
- H264 GOP (I-Frame Interval): same as Primary Streaming
- H264 Rate Control Mode: same as Primary Streaming
- Quality (for MJPEG codec): same as Primary Streaming

Enhanced H.264 Settings:

- **Enable:** Set to **On** to enable, or **Off** to disable.
- Level: Set to Low, Mid, or High.
- Mode: Set to EcoZone or EcoZone+EcoFrame
 - » EcoZone: Recognizes dynamic motion within the image and compresses the static portion of the image at a higher compression level decreasing the overall bandwidth.
 - » EcoZone+EcoFrame: Combines EcoZone feature above with EcoFrame reducing the overall bandwidth further. EcoFrame reduces the frequency of I-frames in a static scene (e.g. storage room).

Advance Settings:

- White Balance: Set White Balance mode to ATW (Auto Tracing White Balance), Auto or Manual.
 - » Auto: Automatically controls color temperature ranging from 2500°K to 10000°K
 - » ATW (Auto Tracing White Balance): continuously adjusts the camera color balance in accordance with any change in color temperature.
 - » Manual: Set R (Red) Gain and B (Blue) Gain values manually between 0 and 511, according to your preference.

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.4 Privacy Zone (edge)

Video Privacy Zone EXP SD	Card Rec/Sched Co	omm User	System	Logs
Configuration				Preview
Privacy Zone Setting:				
Color Setting:	Black -			
Privacy Zone Enable:	On 🗾			
Privacy Zone List:				
Privacy Zone 1 Privacy Zone 3 Privacy Zone 4 Privacy Zone 5 Privacy Zone 5 Privacy Zone 7 Privacy Zone 7 Privacy Zone 7 Privacy Zone 8 Privacy Zone 8		lear pply		

In the Privacy Zone setup tab, select an area that needs to be blocked off with a rectangle on Live View and from video recording because of privacy or other concerns. Up to 8 separate Privacy Zones can be configured.

Note: Camera's privacy zone feature is not related to SRX-Pro Server VideoPrivacy feature and functions independently.

Privacy Zone Setting:

- Color Setting: Select the Privacy Zone area color from Black, Grey and White options. The same solid color will be applied to all Privacy Zones drawn on the screen.
- **Privacy Zone Enable:** Set to **On** to enable, or **Off** to disable.

Privacy Zone List:

Privacy Zone List contains 8 place-holder entries for up to 8 custom Privacy Zones. To create a new privacy zone,

1. Click on the placeholder Privacy Zone name in the Privacy Zone List.

E.g. Privacy Zone 1.

- 2. Position your mouse cursor over the Preview window, press and hold left mouse button.
- 3. Drag the cursor to draw a rectangular area to conceal a portion of the image.
- 4. Release the mouse button. The privacy area rectangle will be shaded blue.
- 5. To re-position the privacy zone, hover the mouse cursor over the shaded area, left-click and hold, then drag the area to the new location on the preview window. To re-draw the privacy zone area, click on the video image in the Preview window outside of the shaded zone and repeat Steps 2-4.
- 6. Click **Apply** to save the new privacy zone. Saved privacy zone area will be filled with the solid color selected in the Color Setting.
- 7. To remove a saved privacy zone area, click on the Privacy Zone name in the list and click **Clear**.

6.5 Exposure

The camera's exposure settings can be adjusted in the Exposure setup tab. Four Exposure modes are available: Auto (default), Flickerless, Shutter Priority and Manual).

Exposure Mode: Auto Max Shutter time: 1/7.5 Min Shutter time: 1/7.5 Vita 1/1000 OC Iris Control: Auto BLC: Off BLC: Off HLC: Off WDR: Off Opy Night Switch Mode: Auto Time: Normal Sensitivity Napt To Day: 3 Sensitivity Napt To Day: 3 IR Control Model: Auto IR Control Model: Auto IR Control Model: Auto IR Control Model: Auto IR Level: Auto IR Level: Auto	Max Shutter time: 1/7.5 V Min Shutter time: 1/1000 V DC Iris Control: Auto V EV: 0 V BLC: Off V UC Iris Control: Off V BLC: Off V WDR: Off V Day Night Switch Control V V Day Night Switch Control V V Bay Night Switch Mode: Auto V Sensitivity Night To Day: 3 V IR Control V V IR Control Model: Auto V IR Control Model: Auto V IR Lowic Auto V I'R Lowic Auto V I'R Lowic Auto V	Max Shutter time: 1/7.5 V Min Shutter time: 1/1000 V DC Iris Control: Auto V EV: 0 V BLC: Off V UC Iris Control: Off V BLC: Off V WDR: Off V Day Night Switch Control V V Day Night Switch Control V V Bay Night Switch Mode: Auto V Sensitivity Night To Day: 3 V IR Control V V IR Control Model: Auto V IR Control Model: Auto V IR Lowic Auto V I'R Lowic Auto V I'R Lowic Auto V	kposure Mode			Preview
Min Shutter time: 1/10000 V DC Iris Control: Auto V EV: 0 V BLC: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR	Min Shutter time: 1/10000 V DC Iris Control: Auto V EV: 0 V BLC: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR	Min Shutter time: 1/10000 V DC Iris Control: Auto V EV: 0 V BLC: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR: 0ff V HCC: 0ff V WDR: 0ff V WDR	Exposure Mode:	Auto		
DC Iris Control: EV: EV: D BLC: Crifi V HLC: Off V WOR: Off V WOR: Normal V Reset Exposure Reset Exposure Noise Reduction: 20 [0-20] Defog: Off V Noise Reduction: 20 [0-20] Defog: Off V	DC Iris Control: EV: EV: D BLC: Crifi V HLC: Off V WOR: Off V WOR: Normal V Reset Exposure Reset Exposure Noise Reduction: 20 [0-20] Defog: Off V Noise Reduction: 20 [0-20] Defog: Off V	DC Iris Control: EV: EV: D BLC: Crifi V HLC: Off V WOR: Off V WOR: Control Model: Auto V Reset Exposure Reset Exposure Noise Reduction: 20 [0-20] Defog: Off V Noise Reduction: 20 [0-20] Defog: Off V	Max Shutter time:	1/7.5		
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HLC: Off V WDR: Off V WDR: Off V ay Night Settings Day Night Switch Control Day Night Switch Control Day Night Switch Mode: Auto V Sensitivity Day To Night 3 Sensitivity Night To Day: 3 IR Control IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Leval: Auto V Smart IR: On V	HLC: Off V WDR: Off V WDR: Off V ay Night Settings Day Night Switch Control Day Night Switch Control Day Night Switch Mode: Auto V Sensitivity Day To Night 3 Sensitivity Night To Day: 3 IR Control IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Leval: Auto V Smart IR: On V	HLC: Off V WDR: Off V WDR: Off V ay Night Settings Day Night Switch Control Day Night Switch Control Day Night Switch Mode: Auto V Sensitivity Day To Night 3 Sensitivity Night To Day: 3 IR Control IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Leval: Auto V Smart IR: On V	EV:	0		
WDR: Off V ay Night Settings Day Night Switch Control Day Night Switch Mode: Auto V Time: Normal V Sensitivity Nay To Night: 3 V Sensitivity Nay To Night: 3 V IR Control Model: Auto V IR Loud: Auto V	WDR: Off V Any Night Settings Day Night Switch Control Day Night Switch Mode: Auto V Time: Normal V Sensitivity Day To Night: 3 V IR Control Model: Auto V IR Control Model: C IR CONTROL C I	WDR: Off V Any Night Settings Day Night Switch Control Day Night Switch Mode: Auto V Time: Normal V Sensitivity Day To Night: 3 V IR Control Model: Auto V IR Control Model: C IR CONTROL C I	BLC:	Off		Julie Julie
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Day Night Switch Mode: Auto v Time: Normal v Sensitivity Day To Night: 3 v IR Control Model: Auto v IR Control Model: Auto v Smart IR: On v IR Leval: Auto v Smart IR: On v IR Leval: On v IR Leval: Off v	Day Night Switch Mode: Auto v Time: Normal v Sensitivity Day To Night: 3 v Sensitivity Night To Day: 3 v IR Control Model: Auto v Smart IR: On v IR Lowel: Auto v	Day Night Switch Mode: Auto v Time: Normal v Sensitivity Day To Night: 3 v Sensitivity Night To Day: 3 v IR Control Model: Auto v Smart IR: On v IR Lowel: Auto v	ay Night Settings			
Time: Normal V Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Level: Auto V Smart IR: On V Smart IR: On V	Time: Normal V Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Level: Auto V	Time: Normal V Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Model: Auto V Smart IR: On V Smart IR: On V IR Level: Auto V	Day Night Switch Control			Contraction - and a start
Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Smart IR: On V Noise Reduction: 20 [0-20] Defog: Off V	Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Model: Auto V Smart IR: On V IR Level: Auto V Smart IR: On V Smar	Sensitivity Day To Night: 3 V Sensitivity Night To Day: 3 V IR Control Model: Auto V Smart IR: On V IR Level: Auto V Smart IR: On V Smar	Day Night Switch Mode:	Auto	~	
Sensitivity Night To Day: 3 V Reset Exposure IR Control IR Quality	Sensitivity Night To Day: 3 V Reset Exposure IR Control IR Quality	Sensitivity Night To Day: 3 V Reset Exposure IR Control IR Quality IR Smart IR: On V Noise Reduction: 20 [0-20] Defog: Off V	Time:	Normal	~	
IR Control Quality IR Control Model: Auto V Smart IR: On V IR Level: Auto Defog:	IR Control Quality IR Control Model: Auto V Smart IR: On V Value: Auto Concerned to the second to the	IR Control Quality IR Control Model: Auto V Smart IR: On V Value: Auto Concerned to the second to the	Sensitivity Day To Night:	3	~	
IR Control Model: Auto V Smart IR: On V IR Length Auto Off	IR Control Model: Auto V Smart IR: On V Noise Reduction: 20 [0-20] Defog: Off V	IR Control Model: Auto V Smart IR: On V IR Level: Auto V Defog: Off V	Sensitivity Night To Day:	3		Reset Exposure
IR Control Model: Auto V Noise Reduction: 20 [0-20] Smart IR: On V Defog: Off V	IR Control Model: Auto V Noise Reduction: 20 [0-20] Smart IR: On V Defog: Off V	IR Control Model: Auto V Noise Reduction: 20 [0-20] Smart IR: On V Defog: Off V	IR Control			Quality
Smart IR: On V Defog: Off V	Smart IR: On V Defog: Off V	Smart IR: On V Defog: Off V	IR Control Model:	Auto	~	
TR Level:	TR Level:	TR Level:	Smart IR:	On	~	
			IR Level:	Auto	$\overline{}$	

Exposure Mode > Auto Exposure (Default):

Shutter speed (exposure time) is the length of time the camera's shutter stays open, exposing the CMOS sensor to light. The lower (slower) the shutter speed, the more light enters; the higher (faster) the shutter speed, the less light. Longer shutter speeds are needed in the low light conditions but are not recommended in the scenes with a lot of movement, as long exposure

Exposure Mode:	Auto	~
Max Shutter time:	1/7.5	~
Min Shutter time:	1/10000	~
DC Iris Control:	Auto	~
EV:	0	~
BLC:	Off	~
HLC:	Off	~
WDR:	Off	~

time creates a blurring effect in the moving objects. Higher (faster) shutter speeds are helpful in reducing the blur of the fast-moving objects.

- **Max Shutter time:** Set the maximum shutter time value from 1/60 (average shutter speed) to 1/7.5 (slowest shutter speed/longest exposure time) sec.
- **Min Shutter Time:** Set the minimum shutter time value from 1/10000 (fastest shutter speed/shortest exposure time) to 1/120 sec.
- DC Iris Control: Set the DC Iris Control to Auto or Full. DC iris is a motor-driven, automatically adjustable iris opening that responds to changes in light levels and resides inside the camera.
- **EV:** Set the Exposure Compensation value from -2 to 2, where -2 results in the darkest image and 2 in the lightest image.
- BLC: (This feature is disabled when Smart IR setting is On) Set an area for Backlight Compensation from the 6 available options: Upper, Lower, Central 1/3rd, Central 1/6th, Left, or Right. Set to Off to disable BLC feature. BLC feature optimizes exposure in the foreground and background of the video image through digital signal processing. BLC splits the video scene into different regions, and uses a different exposure for each of these regions. BLC corrects regions with extremely high or low levels of light to maintain a normal and usable level of light for the object in focus. The diagram is an approximate representation of the selected areas.
- HLC: Set the Highlight Compensation feature to On or Off.

HLC feature senses strong sources of light in video (headlights, spotlights) and compensates for exposure



in these spots to enhance overall video quality. This feature is especially helpful in preventing blinding of security cameras at night time from headlights and is widely used for nighttime license plate readability (car speed <5mph).

- **WDR:** Set the Digital Wide Dynamic Range to **High**, **Medium**, **Low** or **Off**. Digital Wide Dynamic Range uses digital image manipulation to prevent direct bright light from washing out the video image. This feature is especially useful in indoor installations, where the camera's field of view includes an entryway or a window, which lets in a lot of natural light. Digital WDR feature is able to normalize the exposure for the underexposed object in focus inside and overexposed background outside.
- i3-TRNG-CAMS-Ax47R_67R-UM.indd 26

Exposure Mode > Flickerless:

- **DC Iris Control:** same as Auto Exposure Mode
- **EV:** same as Auto Exposure Mode
- **BLC:** same as Auto Exposure Mode •
- **HLC:** same as Auto Exposure Mode .
- WDR: same as Auto Exposure Mode .

Exposure Mode > Shutter Priority:

Shutter Speed: Set camera shutter speed between 1/7.5s to 1/10000s. This setting is useful for scenes with fast-moving objects or with a lot of movement in the scene. Higher shutter speeds make individual frames appear sharper and minimize motion blur, at the same time, however, movement can appear more ierkv. Exposure Mode

Exposure Mode:

Shutter Speed:

DC Iris Control:

EV:

BI Ct

HLC:

WDR:

- DC Iris Control: same as Auto Exposure • Mode
- **EV:** same as Auto Exposure Mode
- **BLC:** same as Auto Exposure Mode •
- **HLC:** same as Auto Exposure Mode
- **WDR:** same as Auto Exposure Mode

Exposure Mode > Manual Exposure:

Shutter Speed: Set camera shutter speed between 1/30s to 1/10000s. This setting is useful for scenes with fast-moving objects or with a lot of movement in

the scene. Higher shutter speeds make individual frames appear sharper and minimize motion blur, at the same time, however, movement can appear more ierkv.

Manual Gain: Set Manual Gain value between 0 and 36.

Gain is an electronic amplification of the video signal, where signal is boosted electronically, adding more voltage to the pixels on the camera's CMOS chip. Higher manual gain values will result in brighter image.

WDR: same as Auto Exposure Mode

Day Night Setting

Day Night Switch Mode: Set to Auto, Color or B/W. Color setting forces the camera to permanently stay in the Color mode, regardless of the amount of light in

the scene. B/W setting forces the camera into Black/White mode permanently. Auto mode lets the camera switch between Color and B/W modes automatically. based on the amount of light.

y Night Settings		
Day Night Switch Control		
Day Night Switch Mode:	Auto	~
Time:	Normal	~
Sensitivity Day To Night:	3	~
Sensitivity Night To Day:	3	~

posure Mode		
Exposure Mode:	Flickerless	~
DC Iris Control:	Auto	~
EV:	0	~
BLC:	Off	~
HLC:	Off	~
WDR:	Off	~

Shutter Priority

1/60

Auto

0

Off

Off

Off

~

~

~

~

~

~

~

Exposure Mode:	Manual	~
Shutter Speed:	1/30	~
DC Iris Control:	Full	~
Manual Gain:	0	[0-36]
WDR:	Off	~

- Time: Set the Time value to Slow, Normal or Fast. Time value is the time delay for Auto Day/Night mode switching. This setting is used in conjunction with the Day Night setting and is unavailable when Manual Exposure is enabled.
- Sensitivity Day to Night: Set the sensitivity value from 0 (lowest) to 6 (highest). The higher the value, the sooner the camera will switch from day (Color) mode to night (B/W) mode as the scene becomes darker.
- Sensitivity Night to Day: Set the sensitivity value from 0 (lowest) to 6 (highest). The higher the value, the sooner the camera will switch from night (B/W) mode to day (Color) mode as the scene becomes lighter.

IR Control

 IR Control Mode: Set to On, Off or Auto. Auto mode turns the IR LED On or Off based on the amount of available present. On/Off settings allow turning the IR LEDs permanently ON or OFF.

IR Control		
IR Control Model:	Auto	~
Smart IR:	On	~
IR Level:	Auto	~

- IR Level: Set to Auto or Manual. Auto setting will automatically adjust the LED luminance level based on the lighting conditions. Manual setting allows setting the IR LED luminance level from 10 to 100% of light intensity.
- Smart IR: Set the Smart IR On or Off. Note, when Smart IR is ON (Enabled), BLC function is Off (Disabled). Smart IR compensates the overexposed area by adjusting exposure value so that the infrared light does not overexpose the object. Smart IR technology solves the problem of infrared LEDs whiting out images, such as people's faces, when they are too close to the IR LEDs of a camera at night.

Quality

- Noise Reduction: Set Noise Reduction value between 0 and 20. The higher the value, the more digital noise is removed from the image.
- Defog: Digital Defog function uses built-in video processing algorithm to improve video appearance in foggy conditions.
- Quality

 Noise Reduction:

 20

 Defog:

 Off

 Gamma Correction:

 0.45
- Gamma Correction: Set
 Gamma Correction to 0.45 or 1.
- Reset Exposure: Reset Exposure settings to factory defaults.

6.6 SD Card (edge recording)

Your Ax47R/67R series camera supports edge video recording to a microSD card for the purposes of data redundancy. One microSD card (64GB max) is supported (not supplied with the camera).

Note: Camera's edge video recording is not related to SRX-Pro Server video recording and functions independently.

Plug your microSD card into the slot on your Ax47R/67R camera. To access microSD slot, camera's Lexan dome bubble must be removed first.

Once the microSD card is recognized by the camera, the

microSD image will be displayed on the camera's main panel.



At least one video stream must

SD Card Settings			
	_		
Recording Type:	One Shot	~	
Clip Duration:	5	~	(Seconds)
Approx. Clip Size:	10		(10~20 MB)
OverWrite:	On	~	
SD Card Explorer access:	On	~	
SD Card LifeSpan Notifi	cation Settings		
Enable:	✓		
OSD Enable:	√		
OSD Text:	Replace micro	SD car	1 ()
E-mail Enable:	✓		
E-mail Subject:	microSD on A	x67R	
E-mail Message:	Replace micro	SD car	d on 🔨
	your Ax67R c	amera	~
SD Card Status			
SD Card Usage:	-		9%
SD Card Life Status:	Normally Funct	tioning	
SD Card Life Expectancy:	99%		
SD Card Format:	SD Form	at	

be set to MJPEG codec in the Video tab to record *.jpg snapshots to microSD card.

At least one video stream must be set to H264 codec in the Video tab to record *.mp4 video clips to microSD card.

Inside the camera's SD Card setup tab, user can configure a type of edge video recording, clip size and overwrite mode status. This tab also includes the microSD card performance information.

SD Card Settings

• Record Type: Set to One Shot, Continuous or Backup.

- **One Shot:** This recording type will record 5- or 10-second *.mp4 video clips » after the event starts (e.g. One Shot $\overline{\mathbf{v}}$ Recording Type: Tamper event). 5 (Seconds) Clip Duration: At least one stream must Approx. Clip Size: 10 (10~20 MB) On OverWrite: ~ be set to H264 codec in the
- » **Continuous:** This recording

Video tab.

type will start recording after the event starts This recording type can also be combined with Scheduled recording (Recording/Schedule tab). Primary or Secondary stream must be set to H264 codec in the Video tab.

SD Card Explorer access:

On

~

- Backup: Same as Continuous recording type, however Third stream is used for recording. Third stream must be enabled and set to H264 codec in the Video tab.
- **Clip Duration:** (applies to One Shot recording type *only*) Set to 5 or 10 seconds.
- **Approx. Clip Size:** Set between 10 and 20 MB. Clip Size value ensures that any single *.mp4 video clip size does not exceed the set limit.
- **OverWrite:** Set the OverWrite mode to **On** or **Off**. When enabled, the information on the microSD card will be overwritten based on FIFO principle.
- SD Card Explorer access: When set to On, the video clips and snapshots on the microSD can be accessed through the Explorer using the following link: ftp://CAMERA_IP_ADDRESS/ipcam. (E.g. ftp://192.168.10.100/ipcam).
 Login credentials are required.

SD Card LifeSpan Notification Setting:

- Enable: Check to enable microSD card health notifications. Note that not all card manufacturers support this functionality.
- OSD Enable: Check to enable On Screen Display text for microSD card health notification.
- OSD Text: Enter the On Screen
 Display custom text for microSD
 card health notification.
- **E-mail Enable:** Check to enable an E-mail to be sent out for

SD Card LifeSpan Notification Settings			
Enable:	✓		
OSD Enable:	✓		
OSD Text:	Replace microSD card		
E-mail Enable:	✓		
E-mail Subject:	microSD on Ax67R		
E-mail Message:	Replace microSD card on your Ax67R camera		

microSD card health notification. SMTP and email information must be correctly configured in the Recording/Schedule tab.

- E-mail Subject: Enter the E-mail subject.
- **E-mail Message:** Enter E-mail body message.

SD Card Status

- SD Card Usage: This percentage value is calculated as microSD Free Space / microSD Total capacity * 100%.
- **SD Card Life Status:** microSD Life Status is the maximum number of overwrite cycles,

SD Card Usage:	9%
SD Card Life Status:	Normally Functioning
SD Card Life Expectancy:	99%
SD Card Format:	SD Format

as defined by the microSD card manufacturer. Note that not all microSD manufacturers support Life Status notification functionality. If your microSD card does not support this feature, SD Card Life Status will say "Lifetime Notification Unsupported".

microSD cards that do support Life Status notification, may say "Normally Functioning", "Replacement Recommended" or "Has Reached its Lifetime" to indicate the health of the microSD media.

- **SD Card Life Expectancy:** Remaining writing lifespan is calculated based on the card's maximum supported number of overwrite cycles, as defined by the manufacturer. It is represented as a percentage value. Lower values indicate shorter remaining lifespan and can also be used as an indicator for microSD replacement.
- **SD Card Format:** Click to format the microSD card. Click **OK** in a confirmation window to proceed.

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.7 Recording/Schedule (edge)

In Recording/Schedule tab, the user can configure FTP recording, SMTP recording, and email notifications based on schedule or on a Defocus event. The following actions are supported for Defocus events: snapshot recorded to the microSD card or FTP, video clip recorded to microSD card, On-screen Display message shown and Email sent.

Note: All settings configured in this setup tab and all linked actions are not related to SRX-Pro Server settings or video recording and function independently.

Video P.Zone EXP SD Card Recording/Schedule Comm	User System Logs		
FTP Record	Arming Schedule Settings		
FTP Server	SCHEDULE DEFOCUS		
FTP Server :	Enable:		
Login ID :	Trigger Interval:	10 1-3	3600 (Sec)
Password :	Store to	SD Card	FTP
FTP Port:	Snapshot:		
(21, 1025~65535)	Record:		
SMTP Record	Sending E-mail by SCHEDUL		
SMTP Server	Enable:		
SMTP Server:	Subject:		
Login ID:			<u>^</u>
Password:	Message:		\checkmark
Sender Email Address:	Day	Start Time	End Time
Port:	Day Monday	Start Time	End Time
Port: Authentication: NO AUTH			
Port:	Monday	00 🔽 00 🔽	23 🗸 59 🗸
Port: Authentication: NO AUTH V Attach Image: Off V	Monday Tuesday		23 V 59 V 23 V 59 V
Port: Authentication: NO AUTH	Monday Tuesday Wednesday		23 V 59 V 23 V 59 V 23 V 59 V
Port: Authentication: NO AUTH V Attach Image: Off V Email Address List	Monday Image: Constraint of the second se	00 V 00 V 00 V 00 V 00 V 00 V 00 V 00 V	23 V 59 V 23 V 59 V 23 V 59 V 23 V 59 V
Port: Authentication: NO AUTH V Attach Image: Off V Email Address List	Image: Monday Image: Mednesday Image:	00 V 00 V 00 V 00 V 00 V 00 V 00 V 00 V 00 V 00 V	23 V 59 V
Port: Authentication: NO AUTH V Attach Image: Off V Email Address List No. Enable Address 1	Monday Image: Constraint of the state		23 V 59 V 23 V 59 V
Port: Authentication: NO AUTH V Attach Image: Off V Email Address List No. Enable Address 1 2	Monday Image: Constraint of the state		23 V 59 V 23 V 59 V
Port: Authentication: NO AUTH V Attach Image: Off V Email Address List No. Enable Address 1 2	Monday Image: Constraint of the state		23 V 59 V 23 V 59 V

To enable supported Defocus detection and resulting camera actions, the following conditions must be met:

- MicroSD card (not supplied) must be inserted into the microSD slot on the camera
- Email SMTP settings are required for all Email actions and must be configured in this tab.
- At least one H264 stream must be enabled in the Video tab for video recording.
- At least one MJPEG stream must be enabled for snapshot email or microSD/FTP recording.

FTP Record > FTP Server

- **FTP Server:** Enter your FTP Server address.
- Login ID: Enter your FTP login
- **Password:** Enter your FTP password
- FTP Port: Enter your FTP Port (Available ports: 21 and 1025~65535 range)

SMTP Record > SMTP Server

- **SMTP Server:** Enter your SMTP Server address.
- Login ID: Enter your SMTP email login
- Password: Enter your SMTP email password
- Sender Email Address: Enter the email address where the camera emails will be addressed from.
- **Port:** Enter your SMTP Port number
- Authentication: Select your SMTP Server authentication method from NO AUTH, SMTP PLAIN, LOGIN and TLS-TTLS.
- Attach Image: This setting controls whether *.jpg snapshots are allowed to be attached to the outbound emails. Set to **On** or **Off**.

Email Address List

Configure up to three unique email recipients. Enable the email entry by checking the Enable checkboxes for the corresponding email address lines, then enter the recipient's email address in the Address column.

Arming Schedule Setting > Schedule

Schedule event tab can be configured to trigger a snapshot recording to microSD card/ FTP or video clip or recording to microSD card based on the set Trigger Interval.

Note: All actions configured in this setup tab are subject to arming schedule.

- **Enable:** Check to Enable custom recording schedule.
- Trigger Interval: Set to 1 to 3600 seconds (1 hour). This setting determines the frequency for Snapshot or Video clip recording, in conjunction with the custom arming schedule.

Store to:

- Snapshot: Check to save a *.jpg snapshot to the microSD and/or FTP after each Trigger Interval.
- **Record:** Check to save a *.mp4 video clip to the microSD after each Trigger Interval.

A		Schedule Settings		
	SCH	EDULE DEFOCUS		
	Enable	21		
	Trigge	r Interval:	10	1-3600 (Sec)
	Store	to	SD Card	FTP
	Snaps	hot:		
	Record	4:		
	Sendi	ng E-mail by SCHEDULE		
	Enable	21		
	Subje	:t:		
	Messa	ge:		0
		Day	Start Time	End Time
		Day Monday	Start Time	End Time
		Monday	00 🔽 00	✓ 23 ✓ 59 ✓
		Monday Tuesday	00 🔽 00	✓ 23 ✓ 59 ✓ ✓ 23 ✓ 59 ✓
		Monday Tuesday Wednesday	00 V 00 00 V 00 00 V 00	23 59 23 59 23 59 23 59 23 59
		Monday Tuesday Wednesday Thursday		23 59 59 23 59 59 59 23 59 59 50 23 59 59 50 23 59 59 50
		Monday Tuesday Wednesday Thursday Friday		23 59 23 59 23 59 23 59 23 59 23 59 23 59 23 59

Sending E-mail by SCHEDULE:

Note: SMTP settings must be configured for this feature.

- Enable: Check to Enable scheduled E-mail after each Trigger Interval. Snapshot image will be added to the email. Note that at least one MJPEG stream must be enabled for this function in Video setup tab.
- Subject: Enter the E-mail subject.
- **Message:** Enter E-mail body message.

Schedule:

 Configure arming schedule. Enable days of the week when scheduled recording will be active (enabled). Set the active time period for each enabled day by using the drop-down menus for **Start** and **End Times** to select the hours and minutes, respectively. By default, Schedule arming schedule is set to stay active 24/7.

Arming Schedule Setting > Defocus

Defocus detection compares the sharpness of consecutive video frames.

Detected Defocus events can trigger a video clip or snapshot recording to the microSD card or snapshot recording to the configured FTP. On-screen display and email notifications are also available.

Note: All actions are subject to schedule.

• **Enable:** Check to Enable Defocus event detection.

Store to:

 Snapshot: Check to save a *.jpg snapshot to the microSD and/or FTP after each Defocus event.

	Arming Schedule Settings			
SCHEDULE DEFOCUS				
Enable:	V			
Store to	SD Card	FTP		
Snapshot:		✓		
Record:	V			
On Screen Display				
Enable:	✓			
Text:	Defocus!	0		
Sending E-mail by DEFOCUS				
Enable:				
Subject:	Subject: Defocus event on Ax67			
Message:	Attached is the snaps event on Ax67.	shot of the Defocus		
Day	Start Time	End Time		
Alexadaria	00 - 00 -			
Monday	00 🗸 00 🗸	23 🗸 59 🗸		
Tuesday		23 × 59 × 23 × 59 ×		
Tuesday	00 🗸 00 🟹	23 🗸 59 🗸		
Tuesday Wednesday		23 V 59 V 23 V 59 V		
Tuesday Wednesday Thursday	00 V 00 V 00 V 00 V 00 V 00 V	23 V 59 V 23 V 59 V 23 V 59 V		

• **Record:** Check to save a *.mp4 video clip to the microSD after each Defocus event.

On Screen Display:

On Screen Display feature will display entered text on the video screen whenever Defocus event is detected.

- **Enable:** Check to enable On Screen Display text when Defocus event is detected by the camera.
- **Text:** Enter the text that will be displayed at the time of Defocus event detection. The OSD text settings are configured under Communication setup tab *(See Section 6.8 for more information).*

Sending E-mail by DEFOCUS:

Note: SMTP settings must be configured for this feature.

- Enable: Check to Enable scheduled E-mail after each Defocus Event. Snapshot image will be added to the email. Note that at least one MJPEG stream must be enabled for this function in Video setup tab.
- Subject: Enter the E-mail subject.
- **Message:** Enter E-mail body message.

Schedule:

 Configure arming schedule for Defocus events. Enable days of the week when Defocus event detection will be active (enabled). Set the active time period for each enabled day by using the drop-down menus for **Start** and **End Times** to select the hours and minutes, respectively. By default, Defocus event detection is set to stay active 24/7.

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.8 Communication Setup

The Communication tab is used to configure network and communication settings on the camera as well as camera OSD settings.

Note: Do not configure SNMP settings in this tab as these are reserved for development and advanced troubleshooting by the manufacturer only and are not required for normal functioning of this camera

RTSP Settings

• **Authentication:** Enable to allow users to get the video stream using third party players, such as VLC with the help or RTSP protocol.

UPnP Settings

UPnP: Set to On to enable or Off to disable.
 Universal Plug and Play (UPnP) is a set of networking protocols that permits

networked devices, such as personal computers, printers, Internet gateways, WiFi access points and mobile devices to seamlessly discover each other's presence on the network and establish functional network services for data sharing.

0	<u> </u>
RTSP Settings	
Authentication:	Disabled 🗸
UPNP Settings	
UPNP:	Enabled

Network Settings

 DHCP: Set to Enabled or Disabled to have the network automatically assign an IP address to the camera.

- **IP Address:** Enter the camera's IP address here. This option is disabled when DHCP is enabled.
- **Subnet Mask:** Enter the camera's Subnet Mask here. This option is disabled when DHCP is enabled.
- Default Gateway: Enter the IP address of the network's router if necessary. Contact your network administrator for this information. This option is disabled when DHCP is enabled.
- **DNS:** Enter a DNS IP Address if necessary.
- HTTP Port: Enter a HTTP Port number if necessary. Available ports: 80, 1025~65535 range
- Physical Address: This field displays camera's MAC Address.

Network Settings	
DHCP:	Disabled 🗸
IP Address:	192.0.0.151
Subnet Mask:	255.255.255.0
Default Gateway:	192.0.0.1
DNS:	192.0.0.1
HTTP Port:	80
	{80,[1025-65535]}
Physical Address:	18:f8:7a:01:14:07

OSD Settings

- **Basic Settings:** Enable or disable camera's OSD settings.
 - » OSD Camera Name: Turn Camera Name OSD On or Off. Camera Name is configured in the Video setup tab.
 - » OSD Date Time: Turn Camera Date/Time OSD On or Off. Camera date/time settings are configured in the System setup tab.
- **Event Settings:** Configure camera's event OSD settings. These settings apply to, Defocus, and tamper as well as microSD card notification OSD.
 - » Background Color: Set the on-screen text background color to Transparent or Black.

» Text Color: Set the on-screen text color to Black or White. It is not

- recommended to set both Background and Text colors to Black.
- » Location X: Set the horizontal position of the OSD on the screen between 1 and 10, where 1 represents the left-hand corner or the screen, 5 - the middle,

OSD Settings		
Basic Settings		
OSD Camera Name:	Disabled	~
OSD Date Time:	Disabled	$\overline{}$
Event Settings		
Background Color:	Transparent	~
Text Color:	White	~
Location X:	5	(1~10)
Location Y:	1	(1~10)

and 10 - the right-hand corner of the screen.

» Location Y: Set the vertical position of the OSD on the screen between 1 and 10, where 1 represents the top of the screen, 5 - the middle, and 10 - the bottom of the screen.

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.9 User Management

User Management tab displays the list of users that have access to the camera. Username and password from this setup tab are used when connecting to the camera through the supported Internet browser or SRX-Pro Server.

Three types of user permissions exist: Administrator, Operator and User.

Administrator has access to the camera's setup settings and user administration, Operators have access to the camera's settings, but not user administration, while Users may only view camera's live streams. Each camera has one master Administrator user (i3admin); four additional users can be created and assigned either Operator or User privileges.

Note: The master Administrator account may not be deleted, however administrative user name and password can be changed.

Reminder: Whenever a change is made to the Annexxus camera user in the camera's Advanced Setup > User Management tab, remember to update this information in the IP Setup tab of the SRX-Pro Server.

I	Video	P.Zone	EXP	SD Card	Rec/Sched	Comm	User Management	System	Logs			
I	User List						Modify User					
I	i3admin			A	dd User	Current U	sernam	e: i3admin				
I	oper					Del	lete User	New User	name:	i3admin		
I								Password				
I								Confirm P	assword	ł:		
I								Permissio	n:	Administrator		
I										Update		
I												
	Not	- Maxim		5 users. ser can not	be deleted.							
	Add 4	a llear										

To add a new user,

- 1. Click Add User button.
- 2. Enter New Username
- 3. Enter new user Password
- 4. Re-enter password in the **Confirm Password** field.
- 5. Set user **Permission** to User or Operator.

New Username:	user1	
Password:		
Confirm Password:		
Permission:	User 🗸	

6. Click Save User button. The new user will be added to the user list on the left.

Delete a User

To delete an existing User or Operator,

- 1. Click on the user name in the list.
- 2. Click **Delete User** button.
- 3. Click **OK** in the confirmation message. The user will be removed from the list.

i3-TRNG-CAMS-Ax47R_67R-UM.indd

Change user name, password or permission

Note: After changing user credentials, do not forget to update SRX-Pro camera connection information in the SRX-Pro Setup>IP Camera tab.

To update an existing username, password, or user permission,

- 1. Click on the user name in the list.
- In the Modify User setup area, enter New Username and/or Password and Confirm Password, or adjust Permission (not available for the Administrator account).
- Click Update button. If changing administrative password, you will be asked to log in with the new administrative credentials. Enter updated administrative login/ password and click OK.

Authenticatio	on Required	×				
?	A username and password are being requested by http://192.168.11.135. The site says: "Authentication Login"					
User Name:	er Name: i3admin					
Password:	•••••					
	OK Cancel					

4. Click **OK** in the confirmation message. The new user settings are now saved.

6.10 System Setup

This setup tab allows setting camera to NTSC or PAL format, setting camera's date/ time, restarting the camera, and exporting/importing/resetting camera settings.

System Information > Current Version Description

This section contains information on the Camera's Model Name and Firmware version. Camera's TV System can be set to NTSC or PAL format from the drop-down menu.

System Information						
Current Version Description						
Model Name:	ANNEXXUS 67R					
Firmware Version:	02_49-101					
TV System:	NTSC					

Date & Time

- **Time Zone:** Set your Time Zone to automatically adjust your camera to Daylight Savings Time. Default Time Zone: America/Toronto (EST).
- Current Date & Time: This section shows camera's current date and time. Set your camera's Date format. Default date format is set to YYYY/MM/DD
- **New Date & Time:** Select a method of updating your camera's date and time. Click the **Save** button to apply the new Date and Time.
 - » Set Manually. Manually enter the new Date and Time. Date format is YYYY/MM/DD, time format is HH:MM:SS.
 - » **Synchronize with Computer Time**. This option synchronizes camera date and time to the PC you are currently connecting to the camera from.
 - » Synchronize with NTP Server. Enter the NTP Server address and set the Sync Period in hours. Sync frequency can be set to every 1, 6, 12 or 24 hours.

Date & Time						
Time Zone:	America/Toronto					
Current Date & Time						
Date:	2017/11/09		Time:	13:	13:01:56	
Date Format:	YYYY/MM/DD	YYYY/MM/DD				
New Date & Time						
Set Man	ually					
Date:	2017	-	11	-	09	
Time:	12		54		13	
Synchr	onize with Computer Timer					
Date & Time:	Thu Nov 09 2017 13:01:58 GMT-0500 (Eastern Standard Time)					
Synchro	nize with NTP	Serv	er			
NTP Server:	us.pool.ntp.org					
SyncPeriod(h):	1 🗸					

Upgrade & Maintenance > Restart/Reset

- Click Restart Camera to restart your Annexxus-series camera, click OK in the pop-up confirmation window. This will cause a temporary disconnect, no video will be recorded while the camera is restarting but all custom settings will be saved. Camera restart is required after the firmware update.
- Click Factory Reset to return all settings, except for the IP Address to factory defaults. Click OK in the pop-up confirmation window to proceed.
- Click Hard Factory Reset to return all camera settings, including IP Address, to factory defaults. Click OK in the pop-up confirmation window to proceed.

Reminder: Default IP address: **192.0.0.16**, default Subnet: **255.255.255.0**. Default Username/Password are **i3admin** / **i3admin**

Upgrade & Maintenance					
Restart - Reset					
- Restart will cause disconnect.	Restart Camera				
 Reset all except Network & Users Management settings. 	Factory Reset				
- Reset all settings.	Hard Factory Reset				

Upgrade & Maintenance > Configuration Settings

Export Configuration:

- Click Export File to export your camera's custom settings. If you have multiple cameras of the same model and you would like to apply a set of custom settings to each one, exporting the configuration file may save time.
- Click **Browser** to locate a (*.tar.gz) configuration file to apply new settings to your camera and click **Import File**.

Configuration Settings				
Export Configuration				
	Export File			
Import Configuration				
	Browser			
	Import File			

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.11 Logs

Note: Logs setup page is not available in IE v8 and IE v9. Use IE v10 or higher, or Firefox.

Logs tab allows searching for event occurrence by date, time and event type. Log events are created for Defocus events and Scheduled recording occurrences.

vent List				Filter	
No.	Event Type	Start Time	End Time		Event Type
1	Defocus	2017/11/09 13:26:03	2017/11/09 13:26:06	Check All	
2	Defocus	2017/11/09 13:26:06	2017/11/09 13:26:09		
3	Defocus	2017/11/09 13:26:09	2017/11/09 13:26:10	Schedule	Defocus
4	Defocus	2017/11/09 13:26:19	2017/11/09 13:26:22		Time
5	Defocus	2017/11/09 13:26:22	2017/11/09 13:26:25	 All the time 	
6	Defocus	2017/11/09 13:26:25	2017/11/09 13:26:26	0	
7	Schedule	2017/11/09 13:24:46	2017/11/09 13:25:16	Manual	
8	Schedule	2017/11/09 13:25:16	2017/11/09 13:25:46	Start Time	
9	Schedule	2017/11/09 13:25:46	2017/11/09 13:26:16	End Time	
				Analysis	Schedule:3 Defocus:6

Searching by Event Type:

To filter the Log Event List, check off one or more **Event Type**. When searching for more than one event type, pie chart report will show a visual representation of the number of each event type within the set time frame.

Searching by Date/Time:

To filter by Time, select All the time or Manual radio button.

When searching within a specific time frame, click inside the **Start Time** field. Configure the Start Date and Time in the pop-up window and click **Set**. Repeat for **End Time** and click **Search**. Only matching log entries will be displayed.

Sorting Event List:

To sort the Event List by Event Type, Start Time or End Time, click on the corresponding column to sort in ascending or descending order.

vent List							
No.	Event Type 🧇	Start Time	End Time				
1	Defocus	2017/11/09 14:26:11	2017/11/09 14:26:14				
2	Defocus	2017/11/09 14:26:14	2017/11/09 14:26:17				
3	Defocus	2017/11/09 14:26:17	2017/11/09 14:26:18				
4	Schedule	2017/11/09 14:24:47	2017/11/09 14:25:18				
5	Schedule	2017/11/09 14:25:18	2017/11/09 14:25:48				
6	Schedule	2017/11/09 14:25:48	2017/11/09 14:26:18				

Refresh: Click to update search results. **Clean Up:** Click to erase all logs.

7. Specifications

Features/Model	Ax47R2/4	Ax67R2/4		
Image System				
Image Sensor	Progressive Scan CMOS 1/3" sensor	Progressive Scan CMOS 1/2.8" sensor		
Signal System	NTSC/PĂL			
Optical System				
Iris Control	Auto Iris			
Focal Length	Ax47R2: 2.8mm Ax47R4: 4mm	Ax67R2: 2.8mm Ax67R4: 4mm		
F-stop Range (F-number)	Ax47R2: 1.8 Ax47R4: 1.6	Ax67R2: 1.8 Ax67R4: 1.6		
Angle of View	Ax47R2: 93° (H) ~ 70° (V) Ax47R4: 63° (H) ~ 47° (V)	Ax67R2: 100° (H) ~ 74° (V) Ax67R4: 68° (H) ~ 51° (V)		
Day/Night	Mecha	nical ICR		
Electric				
Digital Noise Reduction		3D		
Wide Dynamic Range (WDR)	Digit	al WDR		
Minimum Illumination	0.1 lux (BW mode 0 Lux	e), AGC=36dB, 50 IRE), AGC=36dB, 50 IRE w/ IR ON		
Electric Shutter	NTSC: 1/7.5~1/10000 set	c; PAL: 1/6.25~1/10000 sec		
Back Light Compensation (BLC)	Off / On (6 A	rea Selectable)		
Highlight Compensation (HLC)		f / On		
On-board (Edge) Storage	1 x microSD/SDHC/SDXC slot	up to 64GB. Card sold separately		
Alarm In/Out		NA		
Network Specifications				
Video Streaming and Compression Method	Triple Streaming H264 / Motion JPEG			
Maximum Frame rate vs Resolution	1.3MP (1280x960) @ 30fps/25fps	3MP (2048x1536) @ 30fps/25fps		
Network Protocols		P, DHCP, HTTP, SMTP, IGMP, RTSP, RTP, P, SNMP		
Security Access	Multiple privilege contro	I with password protection		
Users		5 Users/Operators		
Other Features		ł		
Other	Privacy Mask, Mirror Flip, Corridor View, Edge Defocus Detection, Smart IR, FTP Recording, Digital Defog			
Mechanism		· · · ·		
Angle Adjustment	Pan: 360°, Tilt: 20°	- 90°, Rotation: ±175°		
Dimensions (Ø x H)	Ø112mm x 82mm (Ø 4.4" x 3¼")			
Weight	approx. 460 g (1.01lb)			
Connectors	Network: RJ45			
IR Distance	2	5m		
Power Supply				
Power Requirement	IEEE 802.3af, Class 3			
Power Consumption (max.)	PoE 8.5W (max)			
Environment		- \ - /		
Operating Temperature	-20°C - 50°C (-4°F - 122°F)			
Operation Humidity	90%, non-condensing			
Power-On Temperature	-2	20°C		
Regulations, Ratings				
Regulations, Ratings	FCC Class B, CE, RoHS, UL, IP67, IK10, ONVIF			
Warranty				
Standard Warranty	i3 Superior 5	-year warranty		
3-TBNG-CAMS-Ax47B 67	B-IIM indd 41	Bev 171100		



i3 INTERNATIONAL INC.

1.866.840.0004 U.S.A. www.i3international.com

i3 America Inc. 4450 Witmer Industrial Estates Unit 4 Niagara Falls, NY 14305

Canada 780 Birchmount Road, Unit 16, Scarborough, ON, M1K 5H4