



A M C R E S T

**5MP UltraHD Series PoE Bullet Camera
User Manual**

Version 1.0.0

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Welcome

Thank you for purchasing an Amcrest camera!

Here you can find information about your camera's features and functions, as well as information to aid in troubleshooting. For access to the quick start guide and other support information, go to <http://amcrest.com/support>

To contact Amcrest support, please do one of the following:

Visit <http://amcrest.com/contact> and use the email form.

Call Amcrest Support using one of the following numbers:

Toll Free: (888) 212-7538

International Callers (Outside of US): +1-713-893-8956

USA: +1-713-893-8956

Canada: 437-888-0177

UK: 203-769-2757

Important Security Warning



To keep your Amcrest camera secure and prevent unauthorized access, please make sure to follow the steps below:

- Always make sure that your camera has the latest firmware as listed on www.amcrest.com/firmware
- Never use the default password for your camera. Always ensure that your password is at least 810 characters long and contains a combination of lowercase characters, uppercase characters as well as numbers.

We are not liable for any problems caused by unauthorized modifications or user-attempted repair.

Device Overview

This fixed lens 5MP outdoor security camera delivers stunning ultra-high-definition video in 5-megapixel resolution, at 20 frames per second. It features a super wide 2.8mm angled lens which provides a full 132° viewing angle. The camera features an IR LED that allows the camera to view objects at night up to 98ft away.

The camera also features a built-in microphone, on-board motion detection, built-in AI features, such as IVS, which can be used for enhanced perimeter protection, and smart motion detection which allows the camera to detect only human and vehicles in the area. The camera also features flexible storage options to store recordings to a microSD card, FTP, NAS, NVR, or using the Amcrest Cloud (optional). All these features can be accessed and customized using a web browser or even using the Amcrest View Pro app using a mobile device.

Installation Guide

Prior to installation ensure that the installation environment can support at least 3 times the weight of the camera.

Stick the installation sticker on the designated surface where the device will be installed (wall or ceiling).
Drill 4 holes through the holes on the installation sticker.
Open the accessories bag and take out the expansion bolt and insert it into the holes.
Open accessories bag and take out the screws. Tighten the 4 screws to fix the device on the installation surface (wall or ceiling).
Loosen the sunshade screw to move it around to the desired position, then tighten the screw to lock it into place.
Plug in the camera to power it, using either an Ethernet or power cable.
Using a Philip's head screwdriver, (not included) loosen the adjusting screw near the base of the camera. This allows the camera to rotate, as well as pivoted within the ball joint.
Adjust the device to the desired position.

Camera Access Setup

This section will provide information on how to setup and access your camera through the following methods: Local PC (Web User Interface (Web UI), Amcrest Orion, Amcrest View Pro 2, etc.

Default Username and Password

To login to the system for the first time, use one of the following default username/password combinations. Once you have successfully logged in, it is highly recommended to change the password for security reasons.

Username: admin

Password: admin

Desktop Access Setup

This camera features the latest in JS technology which allows you to access your camera via a wide variety of web browsers including Google Chrome, Firefox, Safari, or other mainstream web browsers via your PC or Mac computer. For more information on how to access your camera from your computer please refer to the information below.

To access your camera from your computer you will need to first locate the camera's IP address. To locate the camera's IP address is it highly recommended to download our free Amcrest IP Config Tool software. The Amcrest IP

Config Tool can be downloaded at the following web page: amcrest.com/downloads

In the **All Downloads** menu, click on **IP Config Software** to begin the free download. Once the download has completed installing, locate the IP address associated with the device you would like to view in the browser. Open the web browser and enter this IP address into browser. Press enter to access the web user interface.

In the web user interface, enter the login credentials for your device. If this is the first time accessing the device, the username and password will both be **admin**. Click on **Login**.

If this is the first-time logging into your device, you will be prompted to modify the password for your device. To modify the password, enter the new password you would like to use in the **New Password** field and confirm. The password used should be between 8 and 32 characters long with a combination of letters and numbers.




Click **OK** when and allow the stream to load.

Operation and Interface

This section will show you the basic operation and interfaces of the web user interface for your camera.

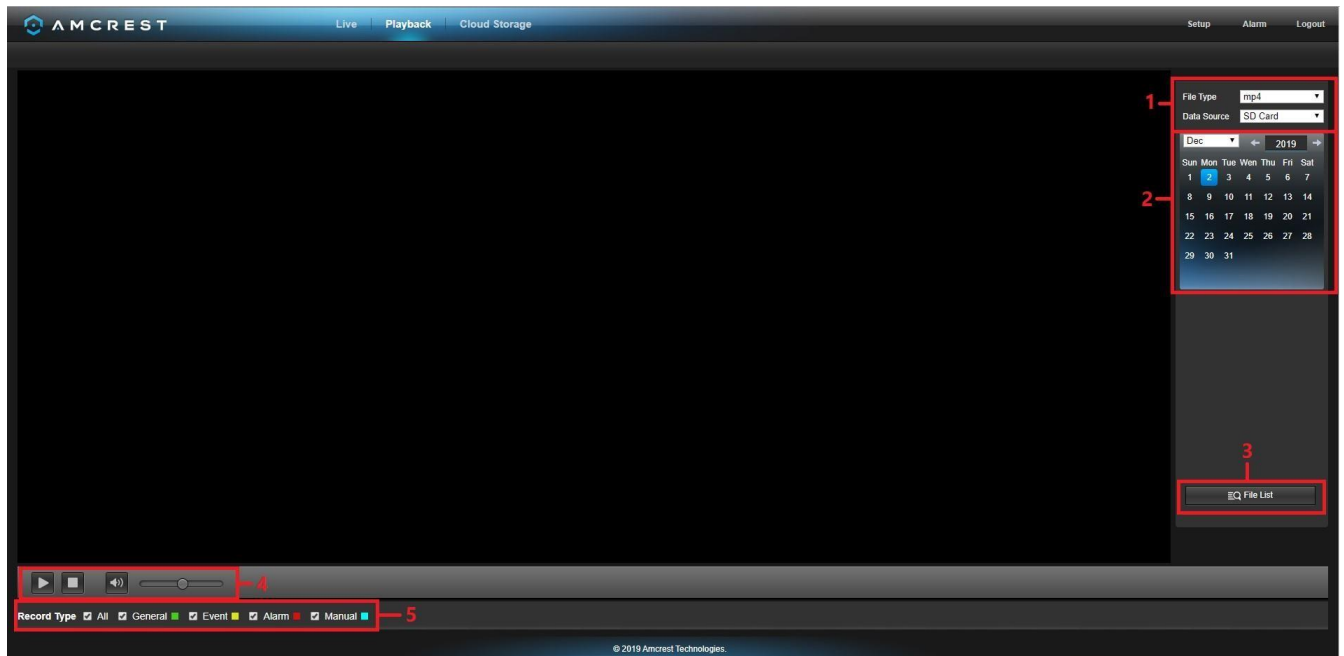
Live

By default, the interface opens on the Live tab. The live view tab allows the user to see a live video feed from the camera.


Icon	Description
	Click to view the live view menu.
	View the mainstream feed of the camera.
	View the substream feed of the camera.
	Manually take a snapshot of the live view feed.
	Listen to or mute the audio from the built-in microphone.
	Enable or disable IVS overlays if IVS features are enabled.

Playback

The Playback tab allows the user to playback the camera's recorded video. Below is a screenshot of the Playback tab:



This is the interface for the playback menu. There are 5 main sections:

1. **File Menu:** This panel allows the user to select a file type and data source.
2. **Calendar:** This panel allows the user to pick a date that they would like to playback video from. When a date has recorded footage available, it is green. The current date is blue, unless it has recorded footage, then it's a lighter green.
3. **File List:** This button allows the user to open or download a recording from a list of all recorded video for a specific date range. To download a recording, press the  button.
4. **Playback Bar:** These options allow the user to play, stop, and adjust the audio levels of a recording.

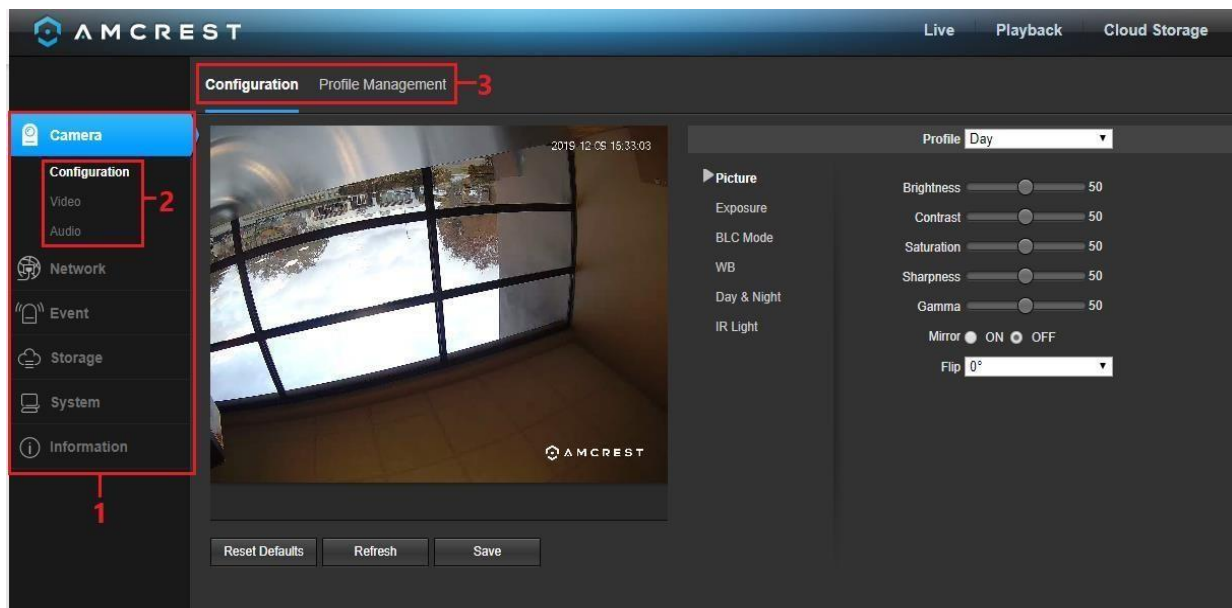
Cloud Storage

The Cloud Storage tab allows the user quick access to the Amcrest Cloud website.

At this website (amcrestcloud.com) users can register for new accounts as well as view or modify existing accounts. For more information on Amcrest Cloud visit: amcrest.com/cloud

Setup

The Setup tab allows the user to change different camera settings. Below is a screenshot of the setup tab:



There are 3 main sections to note in the Setup tab:

1. **Menu Bar:** The menu bar is composed of menu sections, which when clicked display any menu items that fall under their category.
2. **Menu Items:** These menu items each open a different menu that allows the user to change specific settings for the camera.
3. **Menu Tab:** These tabs open menu options for certain menu items.

Camera

This menu section allows the user to change different camera settings for video and to manage image profiles.

Configuration

This menu allows the user to configure image profiles for normal, day, and night usage. Below is an explanation for each of the fields on the Configuration tab in the Configuration menu item:

Picture

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

Brightness: This slider is used to adjust playback and record video window brightness. The value ranges from 0 to 100. The default value is 50. The larger the number, the brighter the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.

Contrast: This slider is used to adjust playback and recorded video window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video's brightness is OK, but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may overexpose. The recommended value ranges from 40 to 60.

Saturation: This slider is used to adjust playback and record video window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the stronger the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, distortion may occur if the white balance is not accurate. Please note the video may not be clear if the value is too low. The recommended value ranges from 40 to 60.

Sharpness: This slider is used to adjust the sharpness of the video. The value ranges from 0 to 100. The larger the value is, the clearer the edges are and vice versa. Note: The higher the value, the higher likelihood of picture noise occurring. The default value is 50 and the recommended value ranges from 40 to 60.

Gamma: This slider is used to adjust the gamma of the video. The larger the number, the brighter the video is. The default value is 50 and the recommended value ranges from 40 to 60.

Mirror: This radio button allows the user to turn the mirroring feature on or off. Turning mirroring on will mirror the picture.

Flip: This dropdown box allows the user to flip the video feed picture. Flipping the picture is recommended only if the camera is mounted upside down.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

Exposure

This menu allows the user to select and adjust the exposure of the video feed.

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

Anti-Flicker: These options allow the user to select what type of anti-flicker technology should be used for the video feed. The three options are 50 Hz, 60 Hz, and Outdoor. The desired option should offset any flickering effect caused by the electrical current used in the specific area.

Mode: This dropdown menu allows the user to modify certain exposure settings related to the device such as, gain priority, shutter priority or setting a manual gain setting.

Auto: This setting will automatically adjust exposure settings based on the environment.

gainFirst - This setting will maximize the gain for the ideal exposure. Low Noise Basically turns up the ISO to the best setting without sacrificing exposure timing.

Shutter Priority - This setting will maximize the fastest shutter speed and will sacrifice the gain in return.

Manual - This setting lets you select your shutter speed and have the gain adjust automatically. Selecting customized range will let you both the shutter speed and adjust the gain manually.

3D NR: Enable or disable 3D noise reduction levels.

Advanced 3D: This slider allows the user to specify the 3D Noise Reduction level. The value ranges from 1-100.

Advanced 2D: This slider allows the user to specify the 2D Noise Reduction level. The value ranges from 1-100.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

BLC Mode

This menu allows the user to select Back Light Compensation. The values are Off, BLC (Auto), WDR, and HLC. This feature should only be used in black lit environments.

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

OFF: Disable BLC mode.

BLC: backlight compensation: Default will use the whole image to balance the lighting settings, and Customized will allow you to balance the lighting settings from the target area.

HLC: Highlight compensation is a feature that came out of necessity due to overexposure from strong light sources like headlights or spotlights.

WDR: Wide Dynamic Range makes multiple scans of a scene to provide one balanced and unwashed image that is clear for the user.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

WB

This menu allows the user to adjust white balance settings. Below is an explanation of the features provided in this menu.

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

Mode: This option allows the user to choose between different white balance modes.

Auto: Allows the camera to automatically adjust white balance settings while in use.

Sunny: Allows the camera to automatically adjust white balance settings in sunny or bright conditions.

Night: Allows the camera to automatically adjust white balance settings in nighttime or dark conditions.

Outdoor: Allows the camera to automatically adjust white balance settings while in outdoor (sunny or dark environments).

Customized: Displays options that will allow the user to manually adjust specific red or blue values related to white balance.

Regional Custom: Allows the user to select an area (region) on the live view screen in which white balance will be most applicable.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

Day & Night

Day & Night profiles are used to determine when black and white mode is turned on in a dark environment.

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

Mode: This dropdown box allows the user to select different Day & Night balance modes. The 3 options are Auto, Color, and B&W.

Auto - Uses D&N Sensitivity setting to change between color mode and infrared and black and white mode.

Color - Preset which allows the camera to compensate for color in day or night profiles.

B&W - Sets the picture to black and white, however when illumination is too dark it switches on IR mode.

Sensitivity: This option allows the user to change the Day/Night Sensitivity of the camera. The three options are Low, Middle, and High. The higher the sensitivity, the quicker the camera will change into another mode depending on the light levels.

Delay: This dropdown box allows the user to set a delay in seconds for how long it takes to switch between Day and Night modes. The values range from 2 seconds to 10 seconds.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

IR Light

This menu allows the user to select whether the IR lights for night vision are on or off for the selected profile. Below is a screenshot of this menu:

Profile: This dropdown box allows the user to select which profile to modify. The 3 options are Day, Night, and General.

Mode: This dropdown box allows the user to select whether to turn the IR light on or off.

Auto – Sets the IR LED to automatically turn on or off based on Day & Night conditions.

Manual – Manually turns the IR LED on.

Off – Manually turns the IR LED off. Please note, IR LED will not turn on at all when this option is selected.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

Profile Management

The profile management menu allows the user to manage global profile settings. Below is an explanation for each of the fields on the **Profile Management** tab:

Profile Management: This set of radio buttons allow the user to set what basis the profile management settings run on. There are 4 options: General, Full Time, Schedule, and Day/Night.

General: The system can automatically alternate between night and day based on the profiles for each.

Full Time: The system sticks to one profile the entire time it is running.

Schedule: allows the user to dictate which times of the day are designated for the day profile and the night profile.

Day/Night: The system maintains one profile (Day or Night) for each mode set by the user.

Always Enable: Select whether profiles will always apply to either or day night profiles.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on **Refresh**. To save the settings, click the **Save** button.

Video

This section allows the user to change video settings for the camera's video feed. There are 4 tabs in this menu item: Video, Snapshot, Overlay, and Path.

Video

The video menu allows the user to view and adjust encode, snapshot, overlay, and path settings. Below is an explanation for each of the fields on the **Video** tab in the Video menu item:

Encode Mode: This dropdown box allows the user to select a compression protocol. The system supports H.264, H.264B, H.264H, and H.265.

Smart Codec: This option allows the user to enable or disable the smart codec. Smart codec is a function in most Amcrest cameras which aims to reduce bandwidth consumption without losing visible image quality by intelligently increasing compression where it will not make a visible difference in the scene.

Resolution: This dropdown box allows the user to set the resolution. The system supports various resolutions, and they can be selected from this dropdown list.

Frame Rate (FPS): This dropdown box allows the user to select a frame rate.

Bit Rate Type: This dropdown box allows the user to select a bit rate type. The system supports two-bit rate types: CBR and VBR. In VBR mode, video quality can be set.

Reference Bit Rate: This is the recommended bit rate value according to the resolution and frame rate selected.

Bit Rate: This dropdown box allows the user to select a bit rate.

Frame Interval: This field allows the user to set the P frame amount between two I frame. The value ranges from 1 to 150 seconds.

Watermark Settings: This function allows the user to verify if the video has been tampered with.

Watermark Character: This field allows the user to set the watermark's text. The default string is Digital CCTV. The maximum length is 85 characters. This string can only include numbers, characters, and underscores.

Stream Smooth: Use this slider to adjust the smoothness of the stream, please note, the higher the smoothness the more resources are required to view the stream in a web browser.

Sub Stream is a lower quality stream that allows the feed to take up less resources and bandwidth when streaming. The Mainstream and the Sub Stream have the same fields. Sub Stream can be enabled by checking the box next to Enable.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Snapshot

The snapshot tab allows the user to adjust all snapshot settings sent by the camera. This includes the type, size, quality and intervals. Below is an explanation of the features provided in this menu.

Snapshot Type: This dropdown box allows the user to select a snapshot mode. There are two snapshot modes:

General: Snapshots are taken as scheduled.

Event: Snapshots occur when a motion detection alarm or tampering alarm is triggered

Image Size: By default, the screenshot size is the same size as the video feed's resolution.

Quality: Allows the user to select image quality. Quality is adjusted on a scale of 1-6 (Best).

Interval: This is to set snapshot frequency. The value ranges from 1 to 7 seconds. The maximum setting for a customized interval is 50000s/picture.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Overlay

The overlay tab allows the user to customize channel titles, time, OSD information (such as logo overlays and face counting), custom titles, etc.

Privacy Masking

Privacy Masking allows the user to enable and disable up to 4 privacy masking blocks on the live view window. To set a privacy mask, click one of the boxes in the live view window, and position or resize it as needed. To remove a box, click on it, then click the delete button. To remove all privacy filter boxes, click the remove all button.

To remove all the settings applied in this menu, click **Remove All**. To delete a specific setting, select the setting you wish to delete can click **Delete**. To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on Refresh. To save the settings, click the **Save** button.

Channel Title

The Channel Title menu allows the user to enable, disable, and customize channel titles in the interface.

Enable – This radio button allows the user to enable the channel title. The channel title can be placed in different areas of the interface by clicking the title on the interface and moving it with your mouse to a desired area.

Disable – This radio button is used to disable the channel title feature.

Input Channel Title: This field allows the user to customize the text in the channel title.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on **Refresh**. To save the settings, click the **Save** button.

Time

The time menu allows the user to enable or disable the date & time overlay on the live view screen. Enable the Display Day of the Week option to display the day of the week as well in the overlay.

Enable – This radio button allows the user to enable the time overlay. The time overlay can be placed in different areas of the interface by clicking the overlay on the interface and moving it with your mouse to a desired area.

Disable – This radio button is used to disable the time overlay.

Display Day of the Week: This checkbox is used to allow the day of the week to be displayed in the time overlay.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on **Refresh**. To save the settings, click the **Save** button.

Logo Overlay

The logo overlay menu allows the user to enable or disable the Amcrest overlay logo in the interface. Click the enable option to enable the Amcrest overlay and click save to apply the setting. To disable the Amcrest overlay, click disable, then click save to apply the setting. Use the text align feature to align if needed.

To reset to default settings, click the **Reset Defaults** button. To refresh the screen, click on **Refresh**. To save the settings, click the **Save** button.

Path

All downloaded files will be saved to your current web browsers download folder.

Audio

This menu allows the user to modify audio settings for the camera. Below is a screenshot that shows the Audio menu item under the Camera menu section. Below is an explanation for each of the fields on the Audio menu:

Enable: This checkbox allows the user to enable audio recording.

Encode Mode: This dropdown box allows the user to select what audio format the audio should be recorded in.

Sampling Frequency: This dropdown box allows the user to select a sampling frequency for the audio. The options are 8k and 16k. 16k audio sampling allows for higher sound quality.

Audio in Device: This field allows the user to select what source to get audio from. The default is the camera's built-in mic. Alternatively, the line in mic can be selected.

Noise Filter: This dropdown box allows the user to enable or disable the audio noise filter function. This function provides cleaner audio quality when enabled.

Microphone Volume: This slider allows the user to select the microphone volume. The value ranges from 0 to 100. The default value is 50.

To reset to default settings, click the **Reset Defaults** button. To refresh the page, click the **Refresh** button. To save the settings, click the **Save** button.

Network

This menu section allows the user to change network settings for the camera.

TCP/IP

The TCP/IP menu item has two tabs: TCP/IP and P2P.

TCP/IP

TCP/IP stands for Transmission Control Protocol/Internet Protocol and it is the language/protocol that allows communication between internet connected devices, whether on a local network, or a on the Internet at large. This screen allows for TCP/IP settings to be modified for the camera to establish a connection to the network.

Below is an explanation of the fields on the TCP/IP settings tab:

Host Name: This text field allows the user to change the host device name for the camera. This field supports a maximum of 15 characters.

Ethernet Card: This dropdown box allows the user to select which internet access device to use. If the device is connected to a wired connection and a wireless one at the same time, then this box will have options to pick either of the connections. The Set as Default button allows the user to select one of the connection methods as the default one.

Mode: Static vs DHCP: This radio button allows the user to choose between a static IP address, and a dynamic IP address. DHCP stands for Dynamic Host Configuration Protocol, and this enables the camera to automatically obtain an IP address from another network device such as a server or more commonly, a router. When the DHCP function is enabled, the user cannot modify the IP address, Subnet Mask, or Default Gateway, as these values are obtained from the DHCP function. To view the current IP address, DHCP needs to be disabled. Note: When PPPoE is enabled, modification of the IP Address, Subnet Mask, and Gateway becomes prohibited.

MAC Address: This field shows the camera's MAC address, which is unique to this device. This number is read only and is used to access a local area network (LAN).

IP Version: This dropdown allows the user to select the IP version. The two options are IPV4 and IPV6.

IP Address: This field allows the user to enter a custom IP address.

Subnet Mask: This field allows the user to enter a custom subnet mask.

Default Gateway: This field allows the user to enter a custom default gateway.

Preferred DNS Server: This field allows the user to enter the preferred DNS server IP address.

Alternate DNS Server: This field allows the user to enter the alternate DNS server IP address.

Enable ARP/Ping to set IP Address Service: This checkbox allows the user to enable the ARP/Ping service to change the IP address service. For more information on this feature, click the help button while on the TCP/IP settings tab.

To reset to default settings, click the **Reset Defaults** button. To refresh the page, click the **Refresh** button. To save the settings, click the **Save** button.

P2P

The P2P settings screen is where users can use a QR code to connect their smartphone or tablet to the camera. This feature needs to be enabled for use with the Amcrest View pro 2 app, Amcrest Cloud, etc. Below is an explanation of the fields on the P2P settings tab:

Enable: This checkbox allows the user to enable the P2P feature for the camera. This feature must be enabled for the camera to connect to a smartphone or tablet via the Amcrest View app. It is enabled by default.

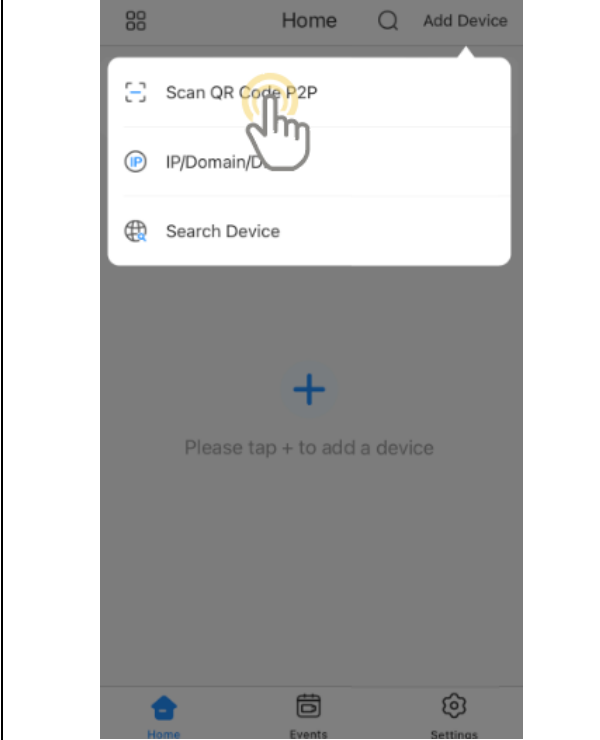
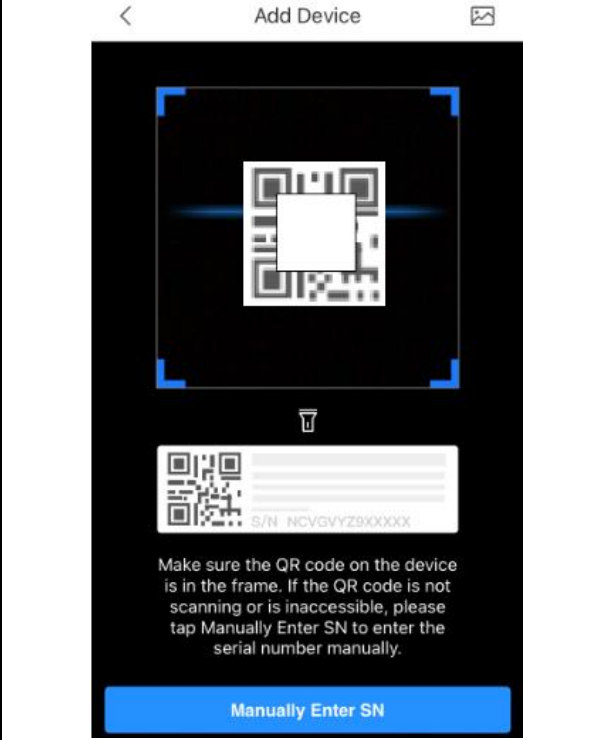
Status: This field displays the status of the P2P connection. Once the camera is connected to a device, this field should display the word Online.

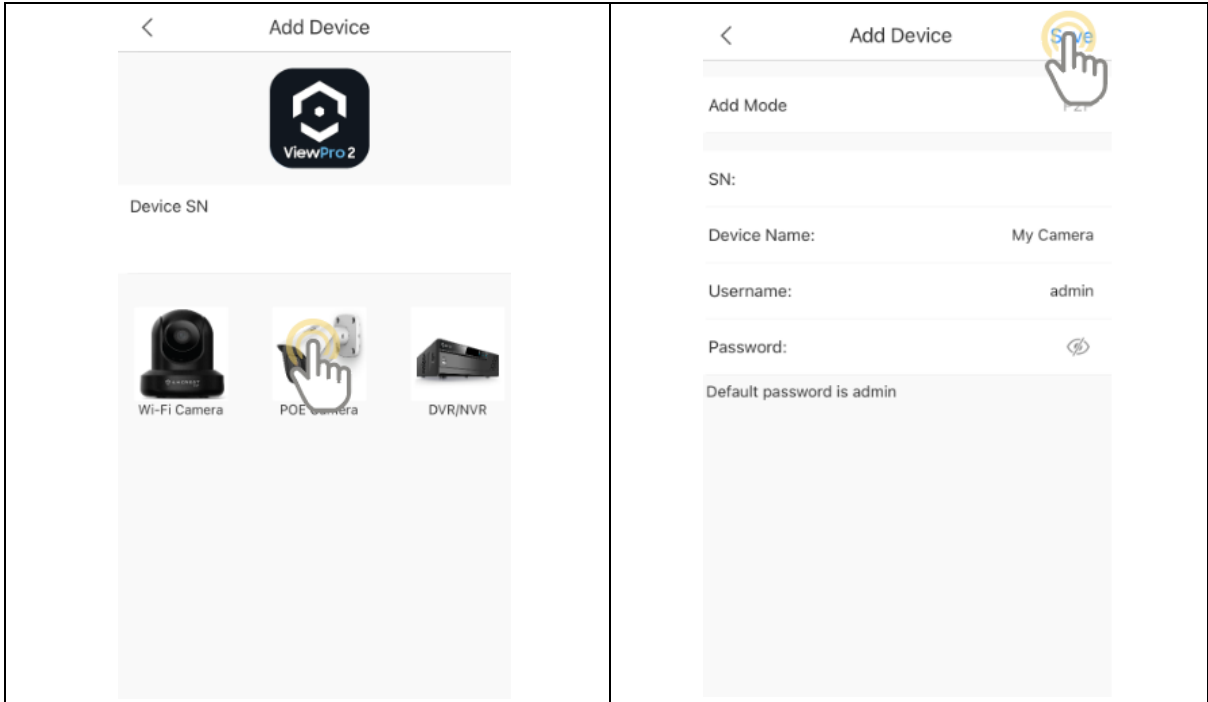
S/N: This field displays the Token ID for the camera. The Token ID can be used to manually enter the camera's information on a mobile or tablet device in case the QR code scanning feature cannot be used.

QR Code: This image is a Quick Response (QR) code. By scanning this image using the Amcrest View app, this camera can establish a connection with the app.

Amcrest View Pro 2

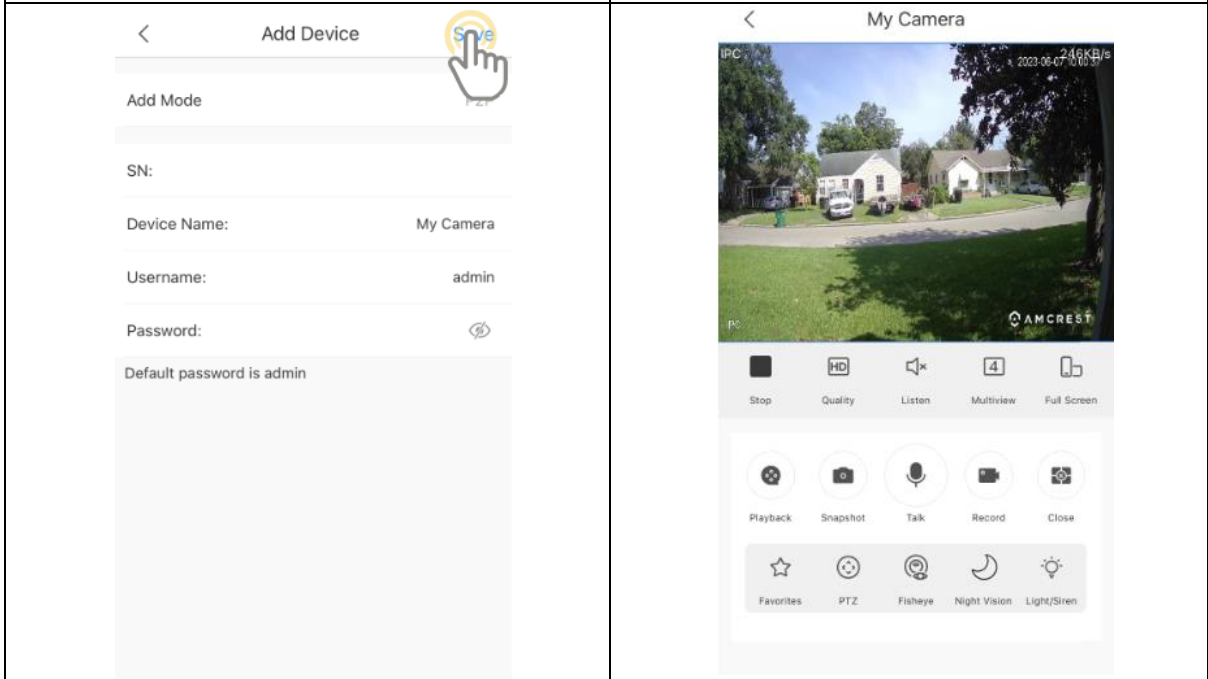
After the app has been successfully downloaded to your mobile device, open the app, and follow the instructions below to add the camera.

	
<p>1. Open the app and click Add Device. Tap Scan QR Code P2P.</p>	<p>2. Scan the QR code on the camera or manually enter the device's serial number into the Enter camera S/N (serial number) field.</p>



3. Tap **POE Camera**.

4. Enter a name for the device in the **Device Name** field. Enter the default password for the camera in the Password field. The default password will be admin. Tap **Save**.



5. Enter the default password into the **Old Password** field, enter a new password in the **New Password** field and confirm. Tap **Save**.

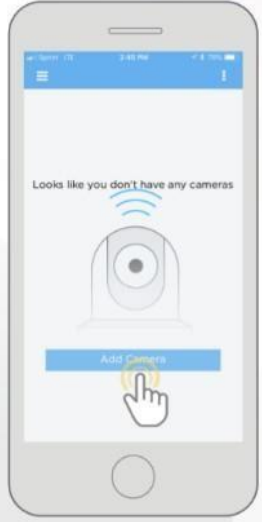
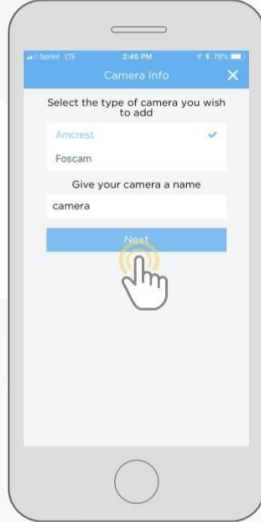
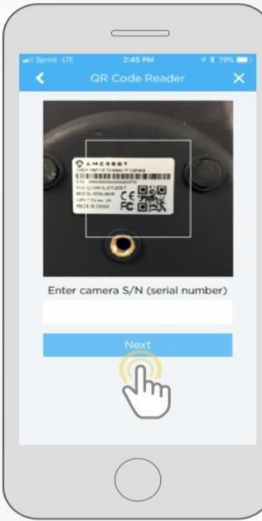
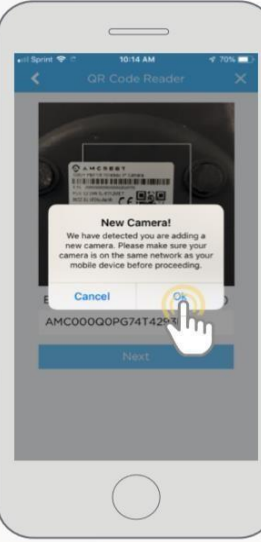
6. Your device has been successfully added to the app.


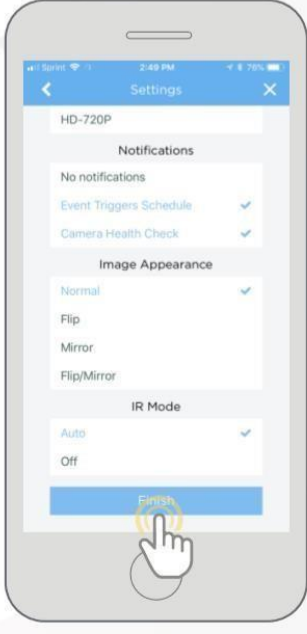
Amcrest Cloud App Setup

Amcrest Cloud allows you to access your device from anywhere in the world. Please note, you will need an Amcrest Cloud account to proceed with Amcrest Cloud app setup. You can register for a cloud account in the Amcrest Cloud app or from the Amcrest Cloud website at amcrestcloud.com

Make sure your camera and mobile device are on the same network during setup.

To ensure the camera connects to the cloud, a reboot of your camera is recommended. Download and open the Amcrest Cloud app from the App Store or Play Store.

	
<p>Tap on Add Camera</p>	<p>Give your camera a name (Ex. Garage, Living Room, Kitchen, etc.) and tap Next to continue.</p>
	
<p>Scan the QR code or manually enter the camera's serial number into the Enter camera S/N (serial number) field. Press Next to continue.</p>	<p>If you are adding a new camera that does not have a set password the app will automatically detect that a new camera is being added. Tap OK to proceed.</p>

	
<p>Set a new password for your camera. The password must be between 8 to 32 characters long and contain only letters and numbers. When you have finished setting the password for your camera, enter the password again in the Confirm Camera Password section. Tap Next to continue.</p>	<p>Confirm and adjust any needed settings for your camera. When all settings have been confirmed, tap Finish.</p>

For more information about the Amcrest Cloud app and its features, visit amcrest.com/support

Connection

The Connection tab is where users can configure port connections. Below is an explanation of the fields on the Connection settings tab:

Max Connections: This field allows the user to specify the maximum number of users that can be connected to the camera at the same time. The maximum number of users the camera can support at one time is 20.

TCP Port: This field designates the Transmission Control Protocol (TCP) port number. The default value is 37777.

UDP Port: This field designates the User Datagram Protocol (UDP) port number. The default value is 37778.

HTTP Port: This field designates the Hypertext Transfer Protocol (HTTP) port number. The default value is 80.

RTSP Port: This field designates the Real Time Streaming Protocol (RTSP) port number. The default value is 554.

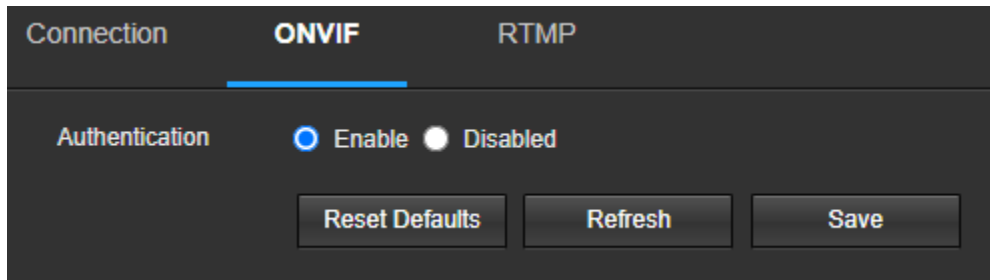
HTTPS: This field enables the use of the HTTPS protocol for accessing the camera.

HTTPS Port: This field designates the Hypertext Transfer Protocol Secure (HTTPS) port number. The default value is 443.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

ONVIF

The ONVIF tab is where users can configure authentication via the ONVIF standard. Below is a screenshot of the ONVIF settings tab:



To enable ONVIF, click the radio button next to Enable, and then click the save button.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

RTMP

The RTMP menu allows the user to stream live video to platforms such as YouTube which support RTMP streaming. Below is a description of the features provided in this menu.

Parameter	Description
Enable	Enable or disable RTMP streaming
Stream Type	Choose to stream the mainstream, sub stream1, and sub stream2
Address Type	Choose between a non-custom or custom RTMP address.
Encryption	Enable or disable RTMP stream encryption.
IP Address	Enter a RTMP IP address (if applicable).
Port	RTMP port number (default port number is 1935).
Custom address	Enter a custom address if using a custom address type. For example, if streaming to YouTube a custom address would be, "Stream URL/Stream key".

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

DDNS

DDNS stands for Dynamic Domain Name Server. This technology is used to automatically update name servers in real time to help the camera maintain a persistent address despite changes in location or configuration. What this means is that even when the camera is restarted, moved, or reconfigured, it can keep the same IP address, thus allowing remote users uninterrupted access to the camera, rather than having to request a new IP address to use for remote access anytime a change is made.

To use this feature, users will need to set up an account with a DDNS service. The camera supports a variety of DDNS services such as AMCRESTDDNS, NO-IP DDNS, and DynDNS DDNS. Based on which service is selected,

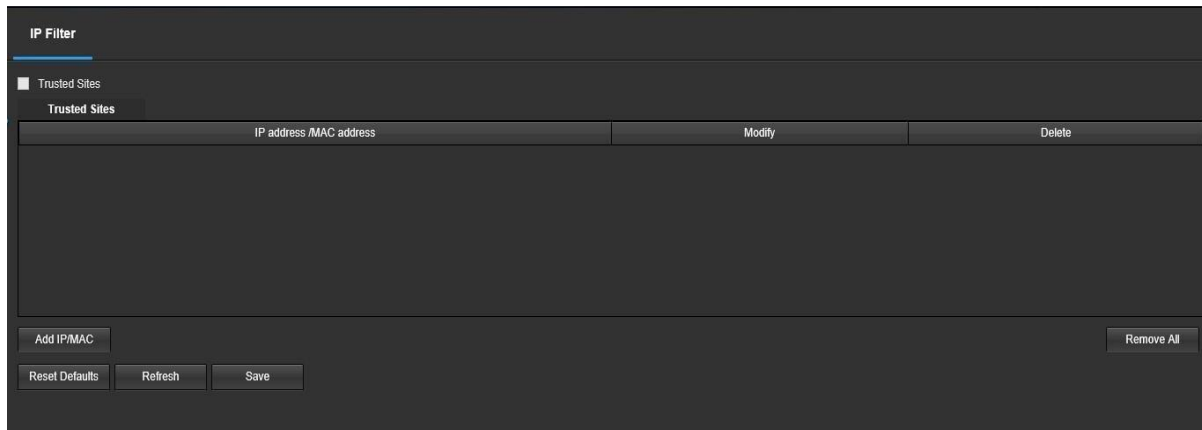
different options may show on this screen. For the purposes of this guide, AmcrestDDNS will be used. AmcrestDDNS is a free DDNS service provided by Amcrest, and it must be renewed every year.

Parameter	Description
Type	Use the dropdown menu to select a DDNS protocol. (NO-IP DDNS, AmcrestDDNS, DynDNS DDNS).
Server Address	The DDNS server's IP address format.
Domain Name	Enter a domain name for the DDNS address. Click Test to make sure it is available
Username	Enter the username of the DDNS server.
Password	Enter the password of the DDNS server.
Interval	The update cycle of the connection between the device and the DDNS server.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

IP Filter

This screen allows for the filtering of IP addresses, either blocking them, or granting them access to the camera. This feature helps make the camera more secure by limiting remote access only to approved users. Below is a screenshot of the IP Filter screen:



Below is an explanation of fields on the IP Filter settings screen:

Trusted Sites: This checkbox allows the user to enable the IP Filter feature for trusted sites.

Add IP/MAC: This button opens a popup that allows the user to add IP or MAC addresses to the trusted site list.

Note:

When accessing the camera externally, please add the MAC address of the router on the PC end.

Remove All: This button allows the user to remove all sites from the trusted IP/MAC list.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

SMTP (Email)

This screen allows for the configuring of email settings to permit the camera to send emails when an alarm is triggered. Below is a screenshot of the email settings screen:

The screenshot shows the SMTP (Email) configuration interface. It includes a header with the title "SMTP (Email)" and a row of five buttons for selecting an email provider: Google, Outlook.com, Comcast, YAHOO!, and Other. The main configuration area contains several fields: "SMTP Server" set to "none", "Authentication" set to "TLS", and "Connection" set to "25". There is a checked checkbox for "Login Anonym..." with sub-fields for "Username" (anonymity), "Password" (masked with dots), and "Sender" (none). The "Title" field is "IPC Message" with an "Attachment" checkbox checked. Below the title is a "Recipients" field with plus and minus buttons. At the bottom, there is a "Keep Alive" checkbox, an "Update Period" of 60 minutes, and a "Test" button. At the very bottom are "Reset Defaults", "Refresh", and "Save" buttons.

Below is an explanation of fields on the SMTP (Email) settings screen:

SMTP Server: SMTP stands for Simple Mail Transfer Protocol. This field allows the user to enter the SMTP server used by the email service.

Port: This field allows the user to enter the port that corresponds to the selected SMTP server.

Login Anonymously: This checkbox allows the user to anonymously login to the server.

Username: This field allows the user to enter the SMTP username.

Password: This field allows the user to enter the password associated with the SMTP username.

Sender: This field allows the user to enter the sender email address. This email address will be the one that sends out all emails pertaining to the alerts and alarm emails sent by the camera.

Authentication: This dropdown box allows the user to select an encryption type. There are two types of email encryption protocols that are available.

SSL: Secure Socket Layer

TLS: Transport Layer Security

Subject: This field allows the user to define the subject line of the email that is sent to the receivers.

Recipients: This field allows the user to enter the receiver email address. These email addresses are the ones that will receive any emails pertaining to alert and alarm emails sent by the camera. Up to 3 email addresses can be entered in this field.

Interval: This field allows the user to define, in seconds, how long the system should wait between sending emails. This prevents multiple emails from being sent out.

Keep Alive: This checkbox allows the user to enable a function to periodically check in with the SMTP server to ensure it can connect correctly.

Email Test: This button causes the system to automatically send out an email to test whether the connection is OK or not. Prior to the email test, please save the email setup information.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

UPnP

UPnP stands for Universal Plug and Play, and it is a protocol used to easily connect devices to the internet. In the case of this camera, it allows the camera to connect to the router in an easy manner to quickly allow for remote access. Below is an explanation of fields on the UPnP settings screen:

Enable: This checkbox allows the user to enable the UPnP function.

Mode: The settings can be customized or reset to default using the dropdown menu.

Router Status: This field shows the UPnP status and has two options:

Failed: This means that UPnP mapping has failed.

Successful: This means that UPnP mapping has succeeded.

Port Mapping List: This table is used to show how the ports for each protocol listed below have been remapped by the UPnP protocol.

The first column shows the checkboxes to enable the corresponding service on the table.

The second column shows the name of the services. To edit this, double click on the service line item.

The third column shows the name of the protocol used by that service. To edit this, click the pencil button in the modify column for that line item.

The fourth column shows the Internal Port used by that service to establish communication from the router to the camera. To edit this, click the pencil button in the modify column for that line item.

The fifth column shows the External Port used by that service to establish communication from the router to the internet. To edit this, click the pencil button in the modify column for that line item.

The sixth column shows the status of the protocol. If the protocol was mapped successfully, this field will say "Mapping Succeeded".

The seventh column allows the user to open a dialog box and edit the service's information.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

HTTPS

This menu allows the user to enable and create HTTPS certificates. An HTTPS/SSL connection can be created using the following information below.

Step 1: Click **Create** and provide the details requested in the form.

Step 2: Click **Install** to install the cert to the browser.

Step 3: Click **Download** to download the cert and install it on your machine.

Step 4: Click **Enable HTTPS** and click Save. The browser will refresh and the URL to your camera will be secure.

Click **Refresh** to refresh the interface, click **Save** to save any settings.

Event

This menu section allows the user to change different settings for triggering events.

Video Detection

The video detection menu has two tabs: Motion Detect and Video Tamper.

Motion Detection

This tab allows the user to modify motion detection settings. Below is an explanation of the fields on the Motion Detect tab:

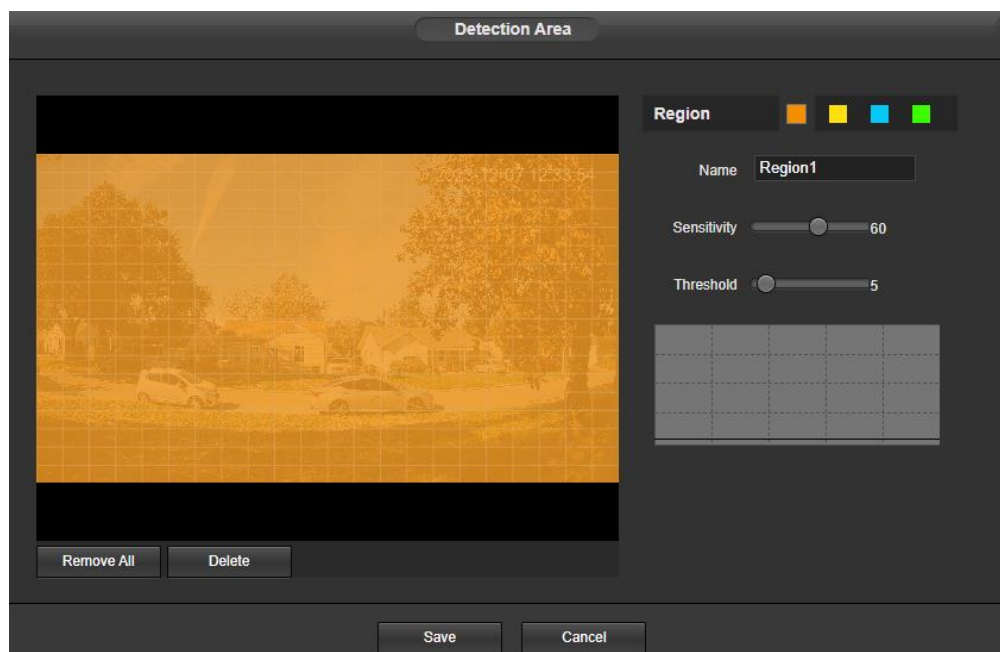
Enable: This checkbox enables motion detection for the camera.

Schedule: Clicking this button opens a weekly schedule that can be used to set times.

Click and drag to set motion detection for certain days of the week. Also, periods of motion detection can be set for each day and enabled using the period settings on the bottom half of the screen. There are a total of 6 periods that can be set.

Anti-Dither: The time in which the camera will not capture any movement. After this end, the feature would inform the camera to begin recording the footage again.

Detection Area: Clicking this button opens a pop-up screen that can be used to set detection areas.



When the setup button is clicked, a live stream of the video is shown. The user can then set up to 4 regions, each with their own region name, sensitivity (1-100), and threshold (1-100). Each region has a specific color, and the region selector tool is displayed when the mouse is moved to the top of the screen.

Sensitivity is the amount of change required to increase the motion detected by a percentage. The lower the sensitivity, the more movement is required to trigger an alarm.

Threshold is the level that the motion detection needs to reach to trigger an alarm. The lower the threshold, the more likely that motion will trigger an alarm.

To designate a zone, click and drag the mouse over the area desired. When a colored box is displayed over the live feed, that area is now enabled for motion detection.

After the motion detection zone is set, click the enter button to exit the motion detection screen.

Remember to click the save button on the motion detection settings screen, otherwise the motion detection zones will not go into effect. Clicking the cancel button to leave the motion detection zone and will not save the zone setup.

Record: This checkbox allows the user to enable the camera to record video when a motion detection alarm is triggered.

Record Delay: This field specifies in seconds how long the delay between alarm activation and recording should be.

Send Email: This checkbox allows the user to enable the camera to send an email when a motion detection alarm is triggered.

Snapshot: This checkbox allows the user to enable the camera to take a snapshot when a motion detection alarm is triggered.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Video Tamper

This option allows the camera to trigger an event if the camera's lens is covered or if the video output becomes insufficient. Below is a description of the features provided in this menu.

Enable: This checkbox enables a video tamper alarm for the camera.

Schedule: Clicking this button opens a weekly schedule that can be used to set times. Click and drag to set video tampering for certain days of the week. Also, periods of video tampering can be set for each day and enabled using the period settings on the bottom half of the screen. There are a total of 6 periods that can be set.

Record: This checkbox allows the user to enable the camera to record video when a video tampering alarm is triggered.

Record Delay: This field specifies in seconds how long the delay between alarm activation and recording should be.

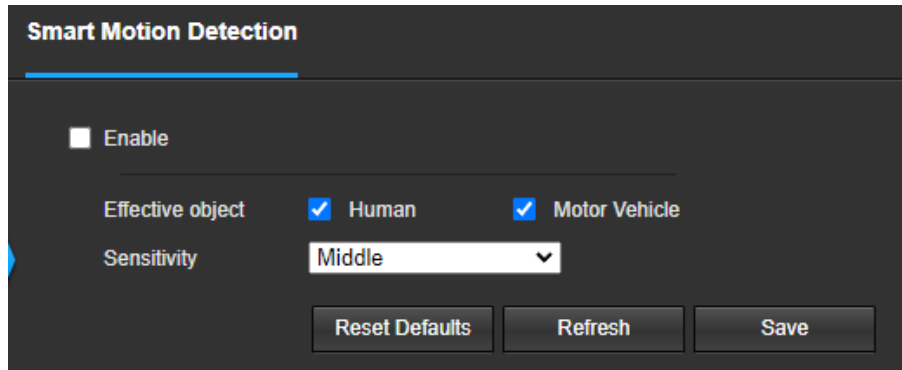
Send Email: This checkbox allows the user to enable the camera to send an email when a video tampering alarm is triggered.

Snapshot: This checkbox allows the user to enable the camera to take a snapshot when a video tampering alarm is triggered.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Smart Motion Detection

Smart Motion Detection uses an advanced algorithm to differentiate between human and motor vehicle shapes within a scene and send alarms only when a person or vehicle is detected. This helps to reduce false alerts from objects such as leaves blowing on a tree, animals, or other unwanted objects.



This option works alongside basic motion detection, so any options enabled in the motion detection menu will apply to smart motion detection as well. To use this option, click the Enable option, select an effective target filter (human or vehicle), set the sensitivity (medium is recommended), then click **Save**.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Audio Detection

This menu allows the user to modify audio detection settings. Below is a screenshot of the Audio Detect screen: Below is an explanation of the fields on the Audio Detection tab:

Enable: This checkbox enables an audio detection alarm for the camera. **Enable Intensity Change:** This checkbox enables intensity change for the camera audio. **Sensitivity** is the amount of change required to increase the audio detected by a percentage. The lower the sensitivity, the more audio variance is required to trigger an alarm.

Enable Intensity Change: This checkbox enables the user to adjust sensitivity and threshold settings for audio detection.

Sensitivity: The higher the sensitivity, the more likely that audio will trigger an alarm.

Threshold: The lower the threshold, the more likely that audio will trigger an alarm.

Schedule: Clicking this button opens a weekly schedule that can be used to set times.

Click and drag to set audio tampering for certain days of the week. Also, periods of audio detection can be set for each day and enabled using the period settings on the bottom half of the screen. There are a total of 6 periods that can be set. 93.

Anti-Dither The time in which the camera will not capture any movement. After this end, the feature would inform the camera to begin recording the footage again.

Record: This checkbox allows the user to enable the camera to record video when an audio detection alarm is triggered.

Record Delay: This field specifies in seconds how long the delay between alarm activation and recording should be.

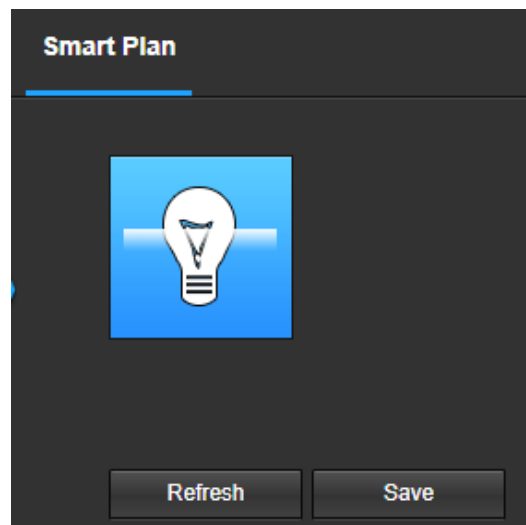
Send Email: This checkbox allows the user to enable the camera to send an email when an audio detection alarm is triggered.

Snapshot: This checkbox allows the user to enable the camera to take a snapshot when an audio detection alarm is triggered.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Smart Plan

The smart plan acts as a master switch for IVS functions associated with your camera. This option will turn the features on or off. Before setting IVS rules, please click the IVS icon in the smart plan menu and click Save to apply the settings to your camera.



To refresh the page, click the Refresh button. To save the settings, click the Save button.

IVS

The IVS rules associated with your camera provide advanced perimeter protection options such as tripwire and intrusion rules that will allow your device to trigger an event if an object such as a human or vehicle cross or enter a detection line or area.

Tripwire

Tripwire allows the camera to trigger an event if an object, such as a human or vehicle, crosses a set tripwire line. To set a tripwire rule, please refer to the information provided below.

Step 1: Make sure the IVS smart plan is enabled in the smart plan menu and access the IVS menu. Click the "+" icon and in the **Rule Type** drop down menu, select **Tripwire**.

Step 2: Click **Draw Rule** and use your mouse to draw a tripwire line on the interface.

Step 3: Select any object filters, such as human, vehicle, or both, select Record (to record the event to a microSD card when triggered) and enable **Send Email**, if email notifications are set in the interface. Click **Save**.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Intrusion

Intrusion allows the camera to trigger an event if an object, such as a human or vehicle, crosses or enters a set intrusion area. To set an intrusion rule, please refer to the information provided below.

Step 1: Make sure the IVS smart plan is enabled in the smart plan menu and access the IVS menu. Click the “+” icon and in the **Rule Type** drop down menu, select **Intrusion**.

Step 2: Click **Draw Rule** and use your mouse to draw an intrusion area on the interface.

Step 3: Select any object filters, such as human, vehicle, or both, select Record (to record the event to a microSD card when triggered) and enable **Send Email**, if email notifications are set in the interface. Click **Save**.

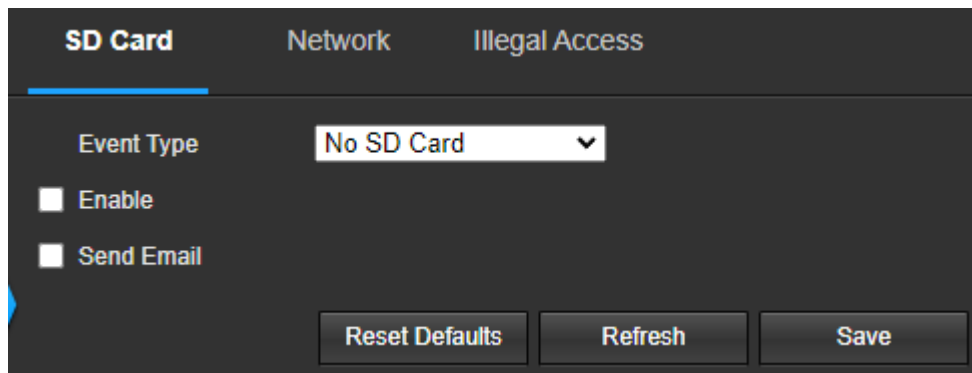
To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Abnormality

This menu allows the user to adjust abnormality event settings. This menu has 5 tabs: SD Card, Network, and Illegal Access, Voltage Detection, Security Exception.

SD Card

This tab allows the user to set the camera’s response to an SD card related abnormality. Below is a screenshot of the SD card tab screen:



Below is an explanation of the fields on the SD Card settings tab:

Event Type: This dropdown box allows the user to select which SD card abnormality to set event triggers for. The 3 options are No SD Card, SD Card Error, and Capacity Warning.

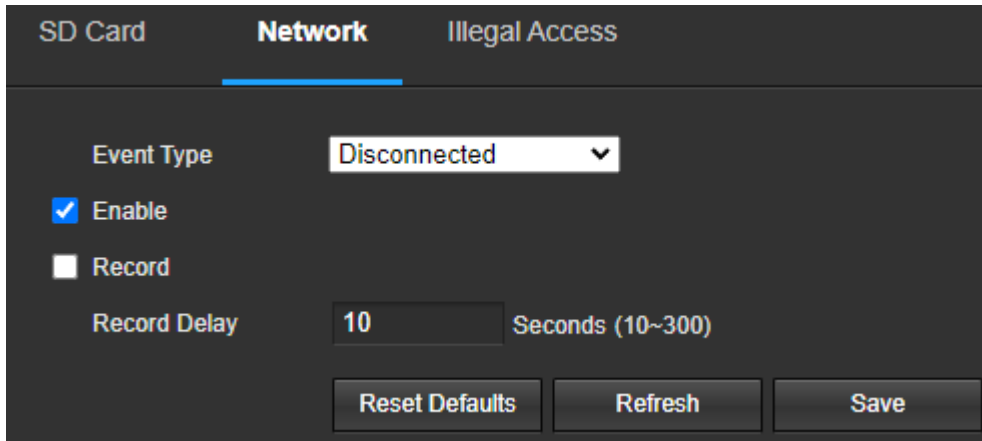
Enable: This checkbox enables the SD Card abnormality trigger for the camera.

Send Email: This checkbox allows the user to enable the camera to send an email when an SD Card abnormality is detected.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Network

This tab allows the user to set the camera's response to a Network related abnormality. Below is a screenshot of the Network tab screen:



The screenshot shows the 'Network' settings tab. At the top, there are three tabs: 'SD Card', 'Network' (which is selected and underlined), and 'Illegal Access'. Below the tabs, there are several settings: 'Event Type' is a dropdown menu set to 'Disconnected'; 'Enable' is a checked checkbox; 'Record' is an unchecked checkbox; 'Record Delay' is a text input field with the value '10' and the label 'Seconds (10~300)'. At the bottom, there are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

Below is an explanation of the fields on the Network settings tab:

Event Type: This dropdown box allows the user to select which Network abnormality to set event triggers for. The 2 options are Disconnected and IP Conflict.

Enable: This checkbox enables the Network abnormality trigger for the camera.

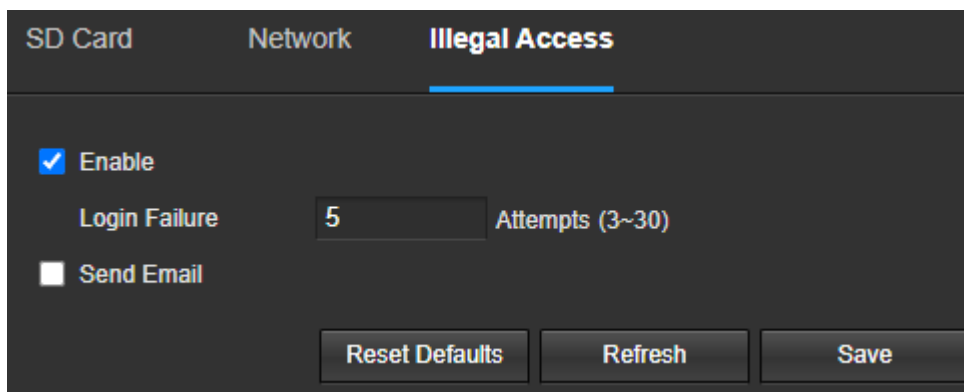
Record: This checkbox allows the user to enable the camera to record video when a network abnormality is detected.

Record Delay: This field specifies in seconds how long the delay between alarm activation and recording should be.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Illegal Access

This tab allows the user to set the camera's response to an Illegal Access related abnormality. Below is a screenshot of the Illegal Access tab screen:



The screenshot shows the 'Illegal Access' settings tab. At the top, there are three tabs: 'SD Card', 'Network', and 'Illegal Access' (which is selected and underlined). Below the tabs, there are several settings: 'Enable' is a checked checkbox; 'Login Failure' is a text input field with the value '5' and the label 'Attempts (3~30)'; 'Send Email' is an unchecked checkbox. At the bottom, there are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

Below is an explanation of the fields on the Illegal Access settings tab:

Enable: This checkbox enables the Illegal Access abnormality trigger for the camera.

Login Failure: This field allows the user to specify how many failed login attempts must be attempted to trigger an Illegal Access abnormality event.

Send Email: This checkbox allows the user to enable the camera to send an email when illegal access is attempted.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Storage

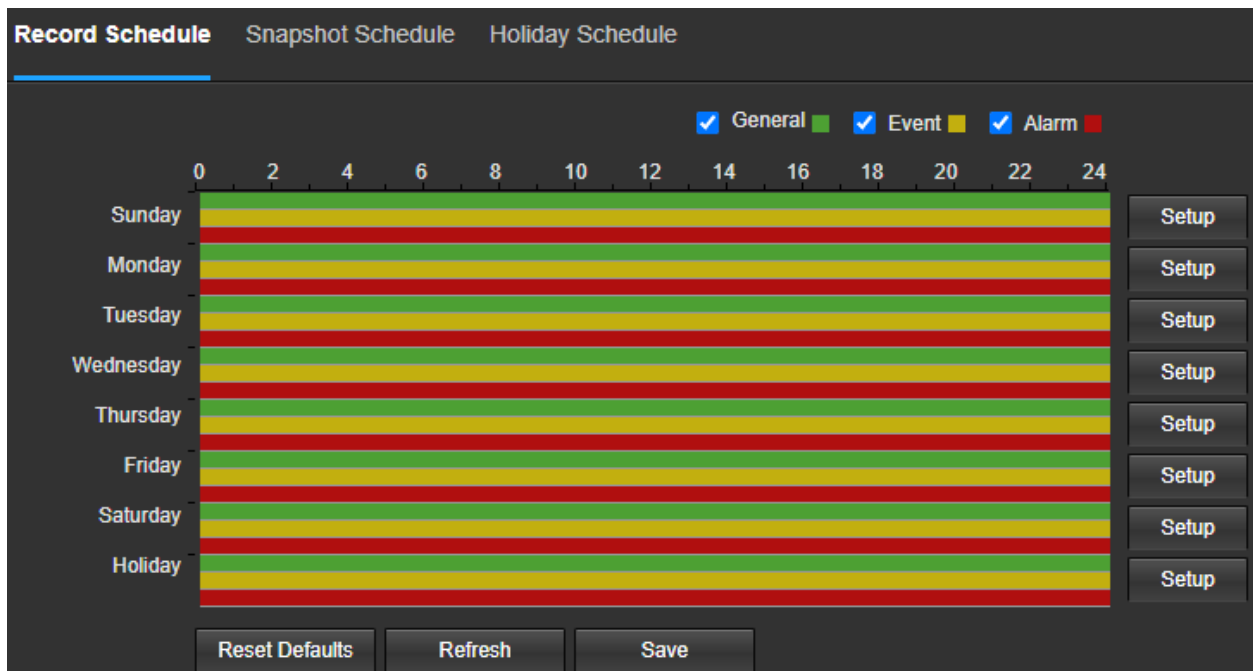
This menu section allows the user to change storage settings for the camera.

Schedule

The schedule menu manages the recording schedule for the camera. This menu has 3 tabs: Record Schedule, Snapshot Schedule, and Holiday Schedule.

Record Schedule

This tab is where video recording settings are configured. Below is a screenshot of the Record Schedule settings screen:



Below is an explanation of the fields on the Record Schedule settings tab:

Record Type: These checkboxes allow the user to select which recording type they want to configure on the schedule. There are 3 types of recordings:

General: General recording means that the camera captures all footage for the specified time period. General recording is represented by the color green.

Motion: Motion Detection recording means that the camera captures only footage when the motion detection alarm is activated. Motion recording is represented by the color yellow.

Alarm: Alarm recording means that the camera captures only footage when an alarm is activated. Alarm recording is represented by the color red.

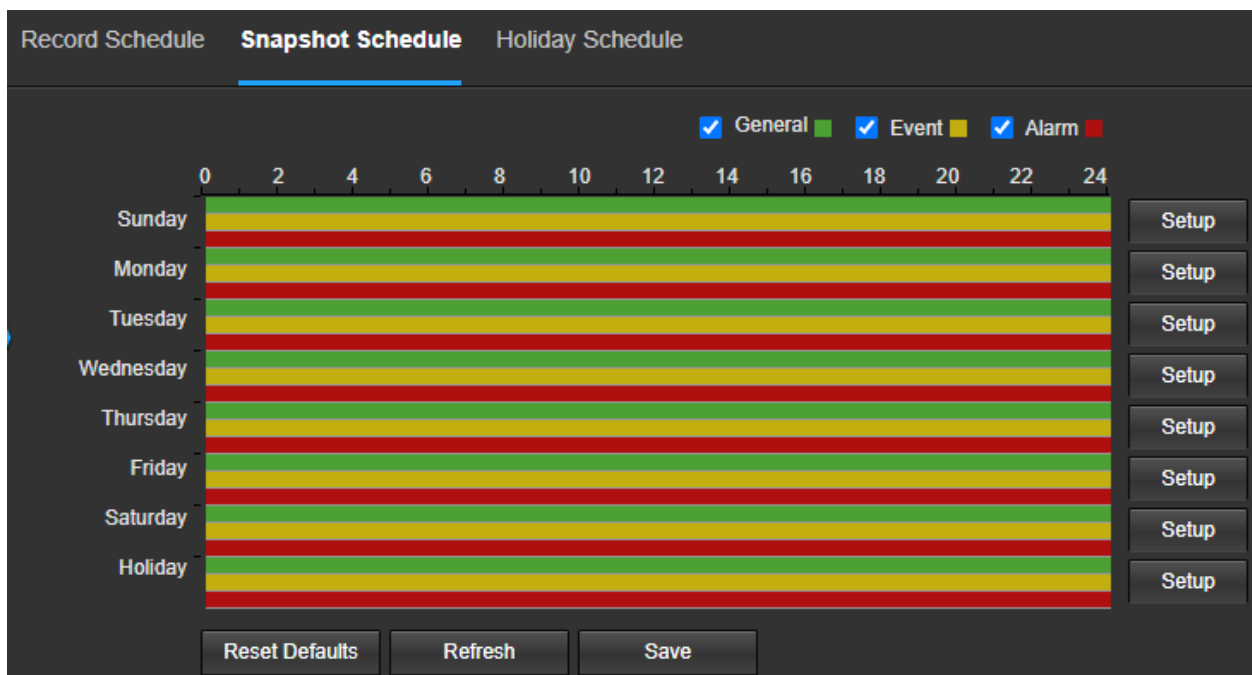
Video Recording Schedule: To specify a video recording range, first select the type of recording desired, then click and drag on time bar for the desired date. To edit multiple days at once, drag the cursor further up or down to cover the other days.

Setup: Clicking this button opens a screen that allows for recording periods to be set for each day and for each recording type. There are a total of 6 periods that can be set.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Snapshot Schedule

This tab is where snapshot recording settings are configured. Below is a screenshot of the Snapshot Schedule settings screen:



Below is an explanation of the fields on the Snapshot Schedule settings tab:

Record Type: These checkboxes allow the user to select which snapshot type they want to configure on the schedule. There are 3 types of snapshots:

General: General means that the camera will take snapshots during the specified time period. General recording is represented by the color green.

Motion: Motion Detection means that the camera only takes snapshots when the motion detection alarm is activated. Motion recording is represented by the color yellow.

Alarm: Alarm means that the camera only takes snapshots when an alarm is activated. Alarm recording is represented by the color red.

Snapshot Recording Schedule: To specify a snapshot range, first select the type of snapshot desired, then click and drag on time bar for the desired date. To edit multiple days at once, drag the cursor further up or down to cover the other days.

Setup: Clicking this button opens a screen that allows for snapshot periods to be set for each day and for each snapshot type. There are a total of 6 periods that can be set.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Holiday Schedule

This tab is where holiday settings are configured. Below is an explanation of the fields on the Holiday Schedule settings tab:

Record Type: These checkboxes allow the user to select which recording type they want to configure on the schedule. There are 2 types of recordings:

Record: This checkbox refers to video recording.

Snapshot: This checkbox refers to snapshot recording.

Calendar: This calendar allows the user to select days to designate as holidays. Once a day is designated, it can be customized to stop recording or snapshots for that day by using the Record and Snapshot checkboxes.

To refresh the page, click the Refresh button. To save the settings, click the Save button.

Destination

This menu controls where recorded media is stored. There are 4 tabs in this menu: Path, SD Card, FTP, and NAS.

Path

This tab is where the user can designate a path for recorded video and snapshots to reside in. Below is a screenshot of the Path tab:

Record				Snapshot			
Event Type	Scheduled	Motion Detect	Alarm	Event Type	Scheduled	Motion Detect	Alarm
SD Card	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SD Card	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FTP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NAS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reset Defaults Refresh Save

Below is an explanation of the fields on the Path settings tab:

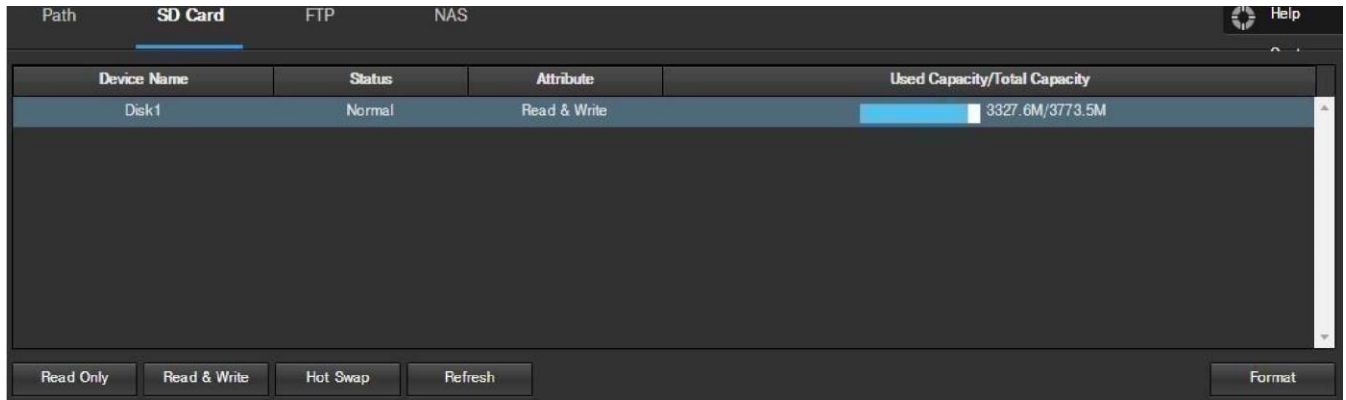
Event Type: This column designates storage options available to the camera. The options are SD Card, FTP, and NAS.

Record Type: These columns designate which recording type should be recorded to which event type. Check the box at the intersection of the record type and event type to designate where that recording should be sent to.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

SD Card

This tab is where the user can change SD card settings. Below is a screenshot of the SD Card tab:



Below is an explanation of the fields on the SD Card settings tab:

Device Name: This column designates the name of the SD card that is currently in the camera.

Status: This column designates the status of the SD card.

Attribute: This column designates the read/write attributes for the SD card. By default, this is Read & Write.

Used Capacity/Total Capacity: This column shows the available memory on the SC card. **Read Only:** This button allows the user to designate an SD card as read only.

Read & Write: This button allows the user to designate an SD card to read and & write privileges.

Refresh: This button refreshes the SD card table.

Format: This button formats the SD card.

FTP

If using FTP, the recommended storage method would be SFTP. Please make sure a designated SFTP server is active before using this method. If an SFTP is not set up, please use FTP and set it accordingly. Below is a description of the options provided in the SFTP or FTP mode menus.

Select between SFTP (Recommended) or FTP protocols using the provided dropdown menu.

Enable: Enables the SFTP or FTP protocol after the information has been entered into the interface.

Sever Address: Enter the server IP of the SFTP or FTP server.

Connection: Enter the port number associated with your SFTP or FTP server. Please note, if using SFTP, use port 22, if using FTP use port 21.

Username: Enter the username associated with the SFTP or FTP server.

Password: Enter the password associated with the SFTP or FTP server.

Remote Directory: Enter the destination folder or path in which the events will be retained in the SFTP or FTP server.

Emergency (Store on SD Card): If the SFTP or FTP server is unreachable, the files will be sent to local storage if a microSD card is installed.

Click **Save** to set the SFTP or FTP settings. To refresh the interface, click **Refresh**. If you need to reset the settings back to default, click **Reset Default**. After all credentials or entered, click **Test** to test the connection.

NAS

This tab is where the user can change NAS settings. Below is an explanation of the fields on the NAS settings tab:

Enable: This checkbox allows the user to enable NAS uploading for the camera's recorded media.

Server Address: This field allows the user to designate a DDNS address for the NAS server/device.

Remote Directory: This field allows the user to specify a remote directory on the NAS to send the recorded media.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Record Control

This menu is where general recording settings are configured. Below is an explanation of the fields on the Record Control settings tab:

Pack Duration: This field allows the user to set how many minutes each file is comprised of.

Pre-event Record: This field allows the user to specify how many seconds before an event should be recorded.

Disk Full: This dropdown box allows the user to designate what the camera should do when the disk is full. There are 2 options: Overwrite or Stop.

Record Mode: This set of radio buttons allows the user to designate the recording mode. The options are Auto, Manual, and Off.

Record Stream: This dropdown box allows the user to specify which stream to record. The options are main stream and sub stream.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Cloud Storage

This menu redirects the user to the Amcrest Cloud web site. At this website (amcrestcloud.com) users can register for new accounts as well as view or modify existing accounts.

For more information on Amcrest Cloud visit: amcrestcloud.com

System

This menu section allows the user to change general settings for the camera.

General

This menu controls where general settings are configured. There are 2 tabs in this menu: General and Date & Time.

General

This tab is where the user can configure some basic camera settings. Below is an explanation of the fields on the General settings tab:

Device Name: This displays the serial number associated with your device.

Language: This dropdown box allows the user to change the language used in the camera.

Video Standard: This dropdown box allows the user to select either the NTSC or PAL video standard.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Date & Time

This tab is where the user can configure the date and time settings for the camera. Below is an explanation of the fields on the Date & Time settings tab:

Date Format: This dropdown box allows the user to change the date format used in the camera.

Time Format: This dropdown box allows the user to change the time format used in the camera.

Time Zone: This dropdown box allows the user to change the time zone used in the camera.

Current Time: This field allows the user to enter the date and time manually. Clicking the **PC Sync** button allows the camera to sync with a Network Time Protocol (NTP) server.

Enable DST: This checkbox allows the user to enable daylight savings time for the camera.

DST Type: This radio button allows the user to select whether DST is based on the week, or a specific day.

Start Time: This dropdown box and field allow the user to enter in the start time for DST.

End Time: This dropdown box and field allow the user to enter in the end time for DST.

Synchronize with NTP: This checkbox allows the user to enable the camera's synchronization with an NTP server.

NTP Server: This field allows the user to enter an NTP server.

Port: This field allows the user to enter the port number for the NTP server.

Update Period: This field allows the user to enter in the update period time. This number designates how frequently the camera pings the NTP server to ensure it has the correct time. The range is from 0-30 minutes.

To reset to default settings, click the Reset Defaults button. To refresh the page, click the Refresh button. To save the settings, click the Save button.

Manage Users

This menu allows the user to change the user accounts on the camera. By default, the camera only has the admin account which has all rights/authorities. Additional accounts can be created on this screen. Below is an explanation of the fields on the Account screen:

Anonymous Login: This checkbox allows the user to enable the anonymous login feature. This allows all user account names to remain hidden on this screen.

User Name: This tab shows the usernames available on the camera.

Group: This tab shows the user groups available on the camera.

No.: This column shows the user's number on the user list.

User Name: This column shows the usernames of the different accounts on the camera.

Group Name: This column shows the group of the different accounts on the camera.

Description: This column shows a description of the account.

Modify: This column allows the user to modify the user account.

Delete: This column allows the user to delete a user account. Note: The admin account cannot be deleted.

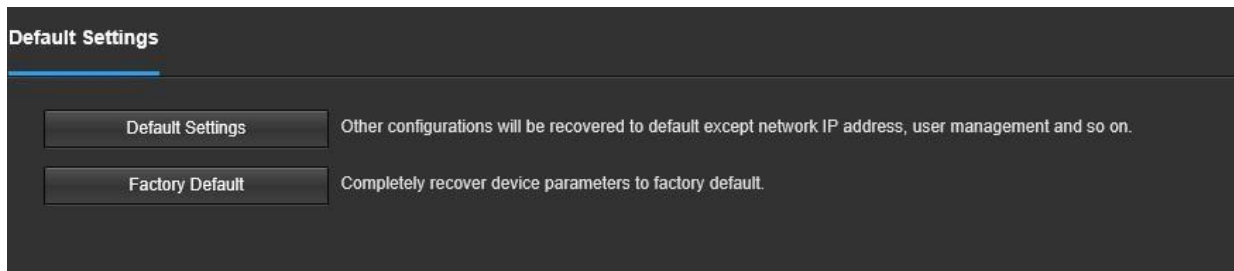
Authority: This box shows which user rights/authorities are assigned to an account.

Add User: This button allows the user to add a new user to the camera.

Default Settings

This screen allows the user to reset the camera and all its settings to the factory settings.

Below is a screenshot of the Default screen:



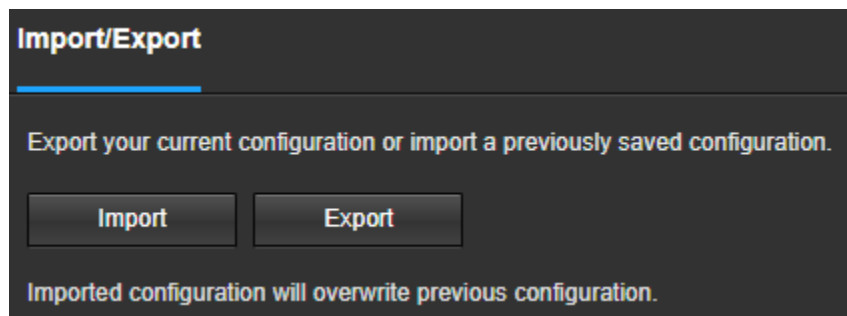
Below is an explanation of the items listed in this field:

Default Settings: Only the IP address, user management, and other settings can be recovered after reset. **Factory**

Default: Completely resets the camera to factory default settings. No settings can be recovered after the camera has been returned to its factory default settings.

Import/Export

This screen allows the user to import or export settings from the camera. Below is a screenshot of the Import/Export screen:



To import settings, click the Import button. To export settings, click the Export button.

Auto Maintain

This screen allows the user to set auto maintenance settings for the camera. Below is an explanation of the fields on the Auto Maintain screen:

Auto Reboot: This checkbox allows the user to enable the auto reboot function. The dropdown box and field to the right of this checkbox allow the user to specify what date and time of the week the camera will auto reboot.

Auto Delete Old Files: This checkbox allows the user to enable the auto deletion of old files on the camera.

Manual Reboot: This button allows the user to manually reboot the camera.

To refresh the page, click the **Refresh** button. To save the settings, click the **Save** button.

Upgrade

This menu allows the user to upgrade the camera's firmware. To upgrade the firmware for your camera, follow the steps provided below:

Go to amcrest.com/firmware

Search for the model number of your camera and download the latest firmware file.

Return to the web user interface for your camera and press the **Browse** button to locate and import the firmware file you just downloaded.

Once the firmware file has been imported, click **Upgrade**.

The device will reset, return to the web user interface. The upgrade is now complete.

Note: When upgrading the camera's firmware, do not disconnect the internet or power from the camera.

Information

This menu section allows the user to view information about the camera for reference purposes.

Version

This screen allows the user to see various information about the camera's software versions, as well as other information.

On this screen, software version, web interface version, and ONVIF version are displayed. Also, the S/N (Token ID) is displayed here.

Log

This screen is where the camera's activity log is kept. Below is a screenshot of the Log screen.

To view logs for a specific time period, modify the start time and end time fields, choose the type of event (system, setting, data, event, record, manage users, clear log), and click search.

To back up the log, click the Backup button. To clear the log, click the Clear button.

Online Users

This screen allows the user to see which users are online. Below is a screenshot of the Online Users screen. Click Refresh to refresh this table.

Alarm

This screen is where the alarm log is kept. Below is a screenshot of the alarm screen:

The table on the right shows the alarm log and all the alarm instances that have occurred.

The checkboxes allow the user to narrow down which alarms they want to see in the alarm log. Clicking the checkbox next to Prompt will cause the system to pop up a dialog box anytime an alarm is triggered.

Clicking the checkbox next to Play Custom Alarm will use a custom alarm sound for the alarm prompt. Click the Browse button to search for a custom alarm sound to use.

Logout

Clicking the logout button will log out the user.

Remote Web Access Setup

There are two main methods for setting up remote access: UPnP/DDNS, and Port Forwarding.

UPnP/DDNS Remote Web Access Setup

Using Universal Plug and Play (UPnP) and Dynamic Domain Name Server (DDNS) functionality is the easiest way to setup stable remote access. For this method, your router should support the uPnP networking protocol and the protocol should be enabled.

Please refer to your router manufacturer's documentation to learn how to enable uPnP on your router.

Below is a step-by-step walkthrough that details how to setup Amcrest cameras for Remote Web Access using UPnP and DDNS:

1. Login to your camera's web interface, open the main menu then go to Setup -> Network.
2. Using the left-hand menu, go to the Connection menu, and write down the HTTP port. It is recommended to ensure the port number is at least 5 digits long to prevent any port conflicts. If need be, change the port to a 5-digit number that is less than 65535, note the number down, and click save before proceeding to the next step.
3. The system will prompt you to reset the camera. Click OK and wait for the camera to restart.
4. Restarting the camera may cause the device to use another IP address. Use the included IP Config tool to find the IP address as detailed previously in this document.
5. Login to your camera, open the main menu then go to Setup -> Network.
6. Click the Connections menu item on the left-hand menu and ensure that the HTTP port has changed.
7. Click the DDNS menu item on the left-hand menu, pick Amcrest DDNS from the drop down box, click the checkbox next to Server Type, and then click the Save button on the bottom right.
8. To set a custom DDNS name, fill out the Domain Name field and click Save.
9. Write down the entire Domain Name field, including the white text that says .AmcrestDDNS.com
10. Click the UPnP menu item on the left-hand menu and click the enable checkbox at the top.
11. While in the UPnP menu, double click the HTTP port, and change both the internal and external HTTP ports to match the number that was used in step 2.
12. Uncheck the last 4 checkboxes in the PAT table on the UPnP menu.
13. Click apply, then exit this menu to go back to the main menu, then re-enter the UPnP menu, and ensure the UPnP status says, "Mapping Successful".

14. Open a web browser and enter in the DDNS domain name address from step 9, enter in a colon, then type the port number from step 4 on to the end.
For example, if the DDNS domain name is <http://abc123456789.AmcrestDDNS.com> and your HTTP Port is 33333, the URL would be <http://abc123456789.AmcrestDDNS.com:33333>
15. The browser may prompt you to install a plugin. Click install to download the plugin, and then click on the plugin installation file to install the plugin.
16. If the browser prompts you to allow the plugin to work on the computer, hit Allow to ensure the plugin can run successfully.
17. Enter in login details into the username and password fields and click login.
If the process above is not working, please contact Amcrest Support via one of the following options:

Visit <http://amcrest.com/contact> and use the email form.

Call Amcrest Support using one of the following numbers

Toll Free: (888) 212-7538

International Callers (Outside of US): +1-713-893-8956

USA: (888) 212-7538

Canada: 437-888-0177

UK: 203-769-2757

Port Forwarding Remote Web Access Setup

Port Forwarding is an alternative method to setting up remote access for Amcrest cameras. This method should only be used if the UPnP/DDNS Remote Access method did not work.

Below is a step-by-step walkthrough that details how to setup the camera for Remote Web Access using Port Forwarding:

1. Login to your camera, open the main menu then go to Setup -> Network.
2. Open the TCP/IP settings screen.
3. By default, the camera has the mode set to DHCP. Ensure that DHCP is selected. The IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS should all be 0s if DHCP is selected.
4. Click Save to save these settings. This should now open the main menu.
5. From the main menu, go to **Setup -> Network**.
6. On the TCP/IP settings screen, the IP Address, Subnet Mask, Default Gateway, Preferred DNS, and Alternate DNS should all be populated.
7. Click the radio button next to Static, to change the mode to Static.
8. Write down the IP Address that is currently in the IP address field.
9. Click the **Save** button.
10. Using the left-hand menu, go to the Connection menu, and write down the TCP, UDP, and HTTP port number. It is recommended to ensure that these port numbers are at least 5 digits long to prevent any port conflicts. If need be, change each of these port numbers to a 5-digit number that is less than 65535, note the numbers down, and click save before proceeding to the next step.
11. Go to <http://www.canyouseeme.org/> and check to ensure each of the port numbers specified in step 10 is open.
12. Write down the manufacturer name, brand, and model name for the router that the camera is connected to, and then proceed to <http://www.portforward.com> on your web browser.
13. Open the port forwarding guide section on the left-hand side menu.
14. Find the router brand name in the list and click it.
15. Find the router model number and click it.
16. Click the Default Guide link near the middle of the page.

17. This guide will help you take the step necessary to port forward on the router. Follow these steps, and then return to the camera.
18. Login to your camera, open the main menu then go to Setup -> Network.
19. Click the DDNS menu item on the left-hand menu, pick AMCRESTDDNS from the drop-down box, click the checkbox next to Server Type, and then click the Save button on the bottom right.
20. To set a custom DDNS name, fill out the Domain Name field and click Save.
21. Write down the entire Domain Name field, including the white text that says .AmcrestDDNS.com
22. Open a web browser and enter in the DDNS domain name address from step 21, enter in a colon, then type the HTTP port number from step 10 on to the end.
For example, if the DDNS domain name is <http://abc123456789.AmcrestDDNS.com> and your HTTP Port is 33333, the URL would be <http://abc123456789.AmcrestDDNS.com:33333>
23. Enter in login details into the username and password fields and click login.

If the process above is not working, please contact Amcrest Support via one of the following options:

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UK: 203-769-2757

FCC Statement

1. 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.
2. The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes, or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.
3. (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual: NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -- Reorient or relocate the receiving antenna. -- Increase the separation between the equipment and receiver. -- Connect the

equipment into an outlet on a circuit different from that to which the receiver is connected. -- Consult the dealer or an experienced radio/TV technician for help.

4. RF exposure warning This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

IC Warning Statement

This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie

Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body. Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

Appendix A: Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal (Case)	o	o	o	o	o	o
Plastic Parts (Panel)	o	o	o	o	o	o
Circuit Board	o	o	o	o	o	o
Fastener	o	o	o	o	o	o
Cable/AC Adapter	o	o	o	o	o	o
Packing Material	o	o	o	o	o	o
Accessories	o	o	o	o	o	o

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note:

- **To view setup videos for many of the steps outlined in this guide, go to <http://amcrest.com/videos>**
- **This user manual is for reference only. Slight differences may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**

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