FELCO
a Motorola Solutions Company

Sarix Value 2 Cameras

Operations Manual

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Sarix Value 2 Cameras Operations Manual

You can use the camera's web interface to check the camera ’s online status and image quality, configure network settings, manage features and upgrade firmware. Make sure you have completed the installation procedure and added the camera to the network before you try to access the web interface.

The settings and features available in the web interface depend on the specific camera model. The information in this guide is relevant to Sarix Value 2 Cameras using the latest firmware. You can download the latest camera firmware at pelco.com/updates.

Camera Models:

- Sarix Value 2 (SRXV2) Bullet, Dome and Wedge

Camera Web Interface System Requirements

The web interface can be accessed from any Windows, Mac, or mobile device using one of the following browsers:

- Microsoft Edge
- Mozilla Firefox
- Google Chrome

NOTE

The web interface may work with other browsers but this has not been verified.

Accessing the Camera Web Interface

You can access the camera web interface to configure camera settings after the camera is installed. You need to use a computer on the same network as your camera to access the camera web interface.

NOTE

The web browser must be configured to accept cookies or the camera web interface will not function correctly.

1. Enter the camera's IP address into a web browser in the format http://*<camera IP address>*/
   For example: http://192.168.1.40/
2. You will automatically be prompted to enter your username and password to access the camera. You will be asked to create a user with administrator privileges before the device will be operational. For more information, see Adding a User.

Access the Camera Web Interface from the Camera Configuration Tool (CCT)

You can also access the camera web interface from the Motorola Camera Configuration Tool (CCT) https://www.pelco.com/camera-configuration-tool/

Creating the Initial User and Logging In

Cameras do not have a default username and password and will be in a factory default state.

> **NOTE**
> You must create a user with administrator privileges before the camera is operational.

If the camera is in the factory default state, you will be redirected to the New User page to create an administrator user:

1. Enter a new **User Name** or keep the default `administrator` name.
2. Enter a new **Password** for the user. It is recommended to use a secure and complex password.
3. Confirm the new password.
4. For the first user, *Administrator* must be selected in the **Security Group** drop-down menu.
5. Click **Apply**. You will be prompted to log in.

Logging In

You will automatically be prompted to enter your username and password to access the camera.

- If the camera is in the factory default state, you will be asked to create a user with administrator privileges before the camera will be operational. Use these credentials when logging in.

> **NOTE**
> Pelco recommends that you add a password after your first log in. For more information, see Editing Users and Passwords.

Log Out

To log out of the camera, at the upper right corner of the window, click Logout.

> **NOTE**
> After 15 minutes of inactivity, the Web UI will automatically log the user out.

Live View

On the *Live View* page, you can preview the live video stream and configure basic settings.

Configure Basic Settings

1. To manually zoom the camera, use the **Zoom** slider.
    a. To zoom out, move the slider towards the left.
    b. To zoom in, move the slider towards the right.
2. Click **Auto Focus** to let the camera focus itself.
3. To manually focus the camera, use the **Focus** slider.
    a. To focus towards zero, move the slider towards the left.
    b. To focus towards infinity, move the slider towards the right.
4. Select a Codec option from the drop-down list.
5. Use the **Analytics** options to turn on or off analytics.
6. Select the **Draw Object Bounding** if you want to enable bounding boxes around objects.
7. Click **Relearn background** to clear learning data and initiate relearning.

Playback

On the *Playback* page, you can search and review recorded video footage. You can use the meter on the bottom of the Live viewer to access footage based on the date and time of the recording.

Search for Events

You can search for events based on Event type, and Date and Time.

1. Select the Storage device from the drop-down list.
2. Deselect the **Event type** checkboxes to exclude them from the search.
3. Use the Time settings options to narrow the search to a specific date/time period.
4. Click **Search**.

General Settings

On the *General Settings* page, you can edit camera name and location, and configure time synching.

1. In the Name field, give the camera a meaningful name.
2. In the Location field, describe the camera's location.
3. In the Time Settings area, select how the camera keeps time.
    a. To manually set the camera's date and time, enter the date and time in the **Date:** and **Time:** fields.
    b. To synchronize the camera's date and time with PC, select the **Synchronize with PC** option. The camera's date and time will update based on the date and time settings on the computer you are using to access the web interface.
    c. To auto-synchronize the camera's date and time with an NTP server, select the **Synchronize with NTP Server** option.
    See *Configure the NTP Server* below next to set up time synching.
4. Click **Apply** to save the settings.

Configure the NTP Server

You can configure the NTP server in the *NTP Setting* area. You must configure the Network Time Protocol (NTP) server for the camera to synchronize date and time with the NTP server. We recommend using the NTP server method to synchronize the camera and device clocks across the network.

1. Select **DHCP** if you want to automatically assign an NTP server.
2. Select **Manual** if you want to assign a specific server and enter the server's IP address.
3. Click and drag the slider, or enter a number, to set the Synchronization Period (in hours).
4. Click **Apply** to save the settings.

Assign a Time Zone

You can select the camera's time zone in the *Time Zone Setting* field.

1. Select the geographical region from the drop-down list on the left.
2. Select the specific region in the drop-down list on the right.
3. Click **Apply** to save the settings.

Network & Security Settings

Use the Network & Security settings to ensure the camera can operate effectively on the network.

Select the *Network & Security* tab to access the following pages:

- Network Settings – manage network protocols and connectivity.
- Multicast Settings – configure Multicast streaming to allow the camera to stream to multiple endpoints.
- Configure TLS – configure TLS and security certificates.
- 802.1x – enable port security protocols.
- SNMP – enable and configure SNMP settings.
- Firewall Settings – enable Firewall and allow or deny certain network addresses.
- SFTP – enable and configure SFTP settings.
- FTP – enable and configure FTP settings.
- DDNS – enable and configure DDNS settings.
- SMTP – enable and configure SMTP settings and add email recipients.
- RTSP – enable authentication and multicast auto connection.
- User Accounts – create and manage user accounts.

Configure Network Settings

On the *Network Settings* page, you can adjust the network settings to ensure the camera can communicate securely with other devices on the network.

1. If you want to configure System Settings, you can edit the following fields:
    a. Hostname – the default Hostname is the camera model number.
    b. MTU – specify the maximum transfer unit (MTU). The default MTU is 1500.
    c. HTTP Port – specify the HTTP port number. The default port is 80.
    d. HTTPS Port – specify the HTTPS port number. The default port is 443.
    e. RTSP Port – specify the RTSP port specify the HTTP port number. The default port is 554.
2. If you want to configure the IPv4 Settings, you can edit the following options:
    a. Toggle the **DHCP** button to enable DHCP.
    b. Toggle the **APIPA** button to enable APIPA.
    c. Enter the camera's IP address.
    d. Enter the Subnet mask address.
    e. Enter the Gateway address.
3. If you want to configure the IPv6 Settings, you can edit the following options:

a. Toggle the **Enable** button to enable IPv6.
b. Select **On** from the *Accept IPv6 router advertisements* drop-down menu if you want to accept.
c. Select **On** from the *DHCP* drop-down menu to turn on DHCP.
d. Enter the IP address and corresponding subnet prefix length. (1-128)
e. Enter the router address and corresponding subnet prefix length. (1-128)
f. Enter the DNS number.

4. Click **Apply**.

Multicast Streaming

On the *Multicast* page, you can adjust multicast streaming settings. You can configure these settings for primary, secondary and tertiary streams.

1. If you want to configure Multicast Streaming, you can select one of the following options from the *Type* drop-down menu:
   a. Auto – the camera will use the default streaming settings.
   b. Manual – you can manually configure the stream settings.
2. If you selected the **Manual** option, you can configure the following options:
   a. Enter the camera address in the Address field.
   b. Enter a port number in the Port field.
   c. Enter a value for the Time to Live (TTL) in the TTL field.
3. Repeat these steps to configure the Secondary and Tertiary Video Stream.
4. Click **Apply**.

Configure TLS

On the *TLS* page, you can configure Transport Layer Security (TLS). TLS provides a layer of security by encrypting communication between the servers on the network and the internet when accessing web applications.

IMPORTANT

You need to install or generate an SSL certificate before enabling TLS.

1. To enable TLS, select one of the following options:
   a. Optional – providing a TLS certificate will be optional.
   b. Required – providing a TLS certificate will be required
2. To configure Certificates, select one of the following options:
   a. Self Signed – select this option to configure a self-signed certificate.
   b. Request – select this option to create a certificate signing request.
   c. Upload Certificate – select this option to upload certificates.

3. If you selected **Self Signed** or **Request**, configure the following fields:
    a. Country – enter a 2-letter country code, e.g., US.
    b. Organization – enter the organization name, e.g., your company name.
    c. Province – enter the full name of your state or province.
    d. Organizational unit – enter the organization unit, e.g., your department or section.
    e. City – enter the city name.
    f. Email address – enter the email address associated with the certificate.
    g. Common name – enter the Hostname or IP address of this device.
4. If you selected **Upload Certificate**, configure the following fields:
    a. To upload a Certificate, select **Choose file** and click **Upload**.
    b. To upload a CA Certificate, select **Choose file** and click **Upload**.
5. Click **Apply**.

802.1x

On the *802.1X* page, you can enable 802.1X port security. 802.1X adds a layer of security when authenticating users over a network.

1. Toggle the **Enable** button to enable 802.1X port security.
2. Select a Protocol from the *Protocol* drop-down list:
    a. EAP-MD5 – authenticates users using a username and password.
    b. EAP-TLS – authenticates users using username and password, and certificates.
    c. None – does not require authentication. Selecting **None** will disable 802.1X.
3. If you selected **EAP-MD5**, enter your Username and Password.
4. If you selected **EAP-MD5**, enter your Username and Private Key Password, and upload the necessary certificates and private key.
5. Click the **Save and Test** button to verify your credentials.
6. Click **Apply**.

SNMP

On the *SNMP* page, you can enable SNMP. SNMP allows you to monitor and manage devices on a network.

1. Select **SNMP V2c** to enable it and enter the following information:
    a. Read community string – enter the type of community string that allows read-only access to the SNMP agent.
    b. Write community string – enter the type of community string that allows read-write access to the SNMP agent.
    c. Address – enter the SNMP address.
    d. Community string – enter the type of community string.

2. Select **SNMP V3** to enable it and enter the following information:
    a. SNMP user – enter the SNMP user.
    b. Authentication – select an authentication mode.
    c. Privacy – if you selected an authentication mode, you can select a privacy setting.
    d. Address – enter the address for Trap configuration.
3. Click **Apply**.

Firewall Settings

On the *Firewall* page, you can enable the Firewall to allow or deny access. You can configure the firewall for up to 10 addresses.

1. To allow Firewall access, select **Allow**.
2. To deny Firewall access, select **Deny**.
3. Toggle the **Enable** buttons and enter the IP addresses you want to Allow or Deny.
4. Click **Apply**.

SFTP

On the *SFTP* page, you can enable SFTP.

1. Toggle the **Enable** button to enable SFTP.
2. Enter the port number. (1025 - 65535)
3. Enter the Username.
4. Enter the Password.
5. Re-type the Password.
6. Enter a value for Max Connections. (1-10)
7. Click **Apply**.

FTP

On the *FTP* page, you can enable FTP.

1. Toggle the **Enable** button to enable FTP.
2. Enter the port number. (21, 1025 - 65535)
3. Enter the Username.
4. Enter the Password.
5. Re-type the Password.
6. Enter a value for Max Connections. (1-10)
7. Click **Apply**.

DDNS

On the *DDNS* page, you can enable DDNS.

1. Toggle the **Enable** button to enable DDNS.
2. Select a provider from the Provide drop-down list:
    a. DynDNS – automatically assign IP addresses to domain names.
    b. No-IP – points your IP address to a static hostname or subdomain.
    c. Two-DNS – uses a secondary DNS server for redundancy.
    d. FreeDNS – allows you to manage the domain.
3. Enter the Hostname.
4. Enter the Username.
5. Enter the Password.
6. If you selected **FreeDNS**, enter the **Hash** value.
7. Click **Apply**.

SMTP

On the *SMTP* page, you can enable SMTP.

1. To configure SMTP settings, enter the following information:
    a. Enter the Host Address.
    b. Enter the SMTP Port number.
    c. Enter the Username.
    d. Enter the Password.
    e. Select an Authentication method.
2. Enter the Sender Email Address.
3. Toggle the **Enable** button and enter an email address.
4. You can add up to 10 addresses.
5. Click **Apply**.

RTSP

On the *RTSP* page, you can enable RTSP.

1. Toggle the **Authentication** button to enable authentication.
2. Toggle the **Multicast Auto Connection** button to enable multicast auto connection.
3. Enter the **Port** number. (1025 - 65535) The default port is 554.
4. Click **Apply**.

User Accounts

On the *User Accounts* page, you can create and manage user accounts.

1. To create a new user, select an access level:
    a. Admin – provides administrator permissions.
    b. Operator – provides an intermediate level of access.
    c. User – provides limited access.
2. Enter a Username.
3. Enter a Password. The password must contain uppercase characters, lowercase characters and digits.
4. Re-type the Password to confirm.
5. Click **Save**. New users will be added to the *Users* list.
6. Click **Delete user** if you want to delete a user.
7. Click **Apply**.

Image & Display

Use the Image and Display settings to improve the camera's image quality.

> **TIP**
>
> Humans are better at interpreting the activity in a scene than the AI-powered analytics. If you can not verify the activity in the scene from your own observation, assume that the camera will not register those events.

Select *Image & Display* on the menu to expand the following tabs:

- Basic Settings – you can use these settings to quickly improve the image quality before adjusting the other image settings.
- Exposure Settings – use these settings to improve image quality based on camera exposure.
- Day/Night Settings – use these options to change the image settings based on the time of day.
- Text Overlay – enable text overlay to display certain information on screen.
- Privacy Zones – enable and configure privacy zones to protect sensitive information.

Basic Settings

On the *Basic Settings* page, you can adjust the basic camera settings to quickly improve the image quality.

1. Use the **Orientation** options to flip the camera preview from left-to-right or top-to-bottom.
2. Drag the sliders to change the **Basic Settings** options:
    a. 2D Noise Reduction – reduces video noise, i.e., image graininess, by removing unnecessary pixels between successive image frames.
    b. 3D Noise Reduction – reduces video noise, i.e., image graininess, by removing unnecessary pixels within frames as well as between successive image frames.
    c. Sharpness Adjust – controls the sharpness of the image.
    d. Saturation Adjust – controls the image saturation.
    e. Contrast Adjust – controls the light and dark contrast.
    f. Brightness Adjust – controls the brightness level.
    g. Hue Adjust – controls the hue.
3. Click **Lock settings** to prevent other users from changing these values.
4. To manually zoom the camera, use the **Zoom** slider.
    a. To zoom out, move the slider towards the left.
    b. To zoom in, move the slider towards the right.
5. Click **Auto Focus** to let the camera focus itself.
6. To manually focus the camera, use the **Focus** slider.

a. To focus towards zero, move the slider towards the left.
b. To focus towards infinity, move the slider towards the right.

7. Toggle the **Enable** button to enable Corridor Mode.
8. Select an option to adjust White Balance:
   a. ATW – to enable Auto Tracking White Balance (ATWB) according to lighting conditions.
   b. Auto – the camera will automatically control the white balance.
   c. Manual – use the sliders to manually set the **Red** and **Blue** levels.
9. Click **Apply**.

Exposure Settings

On the *Exposure Settings* page, you can adjust the camera exposure settings. Exposure settings control the amount of light that reaches the camera's sensor. Adjust the exposure to control the amount the lightness or darkness of the scene.

1. Select an option for **Exposure Mode**:
   a. Auto – the camera will automatically adjust the exposure settings to improve image quality.
   b. Flickerless – you can fine-tune the shutter speed to reduce flicker caused by LED lighting.
   c. Shutter Priority – you can assign a fixed shutter speed and ISO and the camera will automatically adjust the other settings to optimize the image quality.
   d. Manual – you can manually configure the exposure settings.
   e. True WDR – the camera image will have extremely wide dynamic range.
2. If you selected **Auto**, you can configure the following options:
   a. Digital WDR – the camera will adjust the exposure so that a wider range of image details can be identified. This is useful in locations with high contrast.
   b. Max Shutter time – assigns a maximum amount of time the camera shutter will be open.
   c. Min Shutter time – assigns a minimum amount of time the camera shutter will be open.
   d. P-Iris Control – select **Auto** to let the camera adjust automatically or select **Manual** and configure the P-Iris level and EV manually.
   e. EV – select an exposure value (EV) from the list.
   f. BLC – select a backlight compensation setting (BLC) from the list. The camera will adjust the exposure settings to compensate for strong back lighting in a scene to improve the visibility of certain areas.
3. If you selected **Flickerless**, you can configure the following options:
   a. Digital WDR – the camera will adjust the exposure so that a wider range of image details can be identified. This is useful in locations with high contrast.
   b. P-Iris Control – select **Auto** to let the camera adjust automatically or select **Manual** and configure the P-Iris level and EV manually.
   c. EV – select an exposure value (EV) from the list.
   d. BLC – select a backlight compensation setting (BLC) from the list. The camera will adjust the exposure settings to compensate for strong back lighting in a scene to improve the visibility of certain areas.

e. Frequency – select the frequency, i.e., frame rate, from the drop-down list.

> **TIP**
> Set the Frequency to the same frequency as the LEDs. Generally, the frequency in Europe is **50Hz** and North America is **60Hz**.

4. If you selected **Shutter Priority**, you can configure the following options:
   a. Digital WDR – the camera will adjust the exposure so that a wider range of image details can be identified. This is useful in locations with high contrast.
   b. Shutter Speed – select an option from the **Shutter Speed** list. Select a smaller value to increase the shutter speed and shorten the exposure.
   c. P-Iris Control – select **Auto** to let the camera adjust automatically or select **Manual** and configure the P-Iris level and EV manually.
   d. EV – select an exposure value (EV) from the list.
   e. BLC – select a backlight compensation setting (BLC) from the list. The camera will adjust the exposure settings to compensate for strong back lighting in a scene to improve the visibility of certain areas.
5. If you selected **Manual**, you can configure the following options:
   a. P-Iris Control – the default setting is manual.
   b. P-Iris Level – use the slider to adjust the P-Iris level.
   c. Shutter Speed – select an option from the **Shutter Speed** list. Select a smaller value to increase the shutter speed and shorten the exposure.
   d. Gain – use the slider to adjust the gain. Increasing gain will amplify the image but it will also brighten it and increase noise.
6. If you selected **True WDR**, you can configure the following options:
   a. P-Iris Control – select **Auto** to let the camera adjust automatically or select **Manual** and configure the P-Iris level and EV manually.
   b. EV – select an exposure value (EV) from the list.
7. Click **Apply**.

Day/Night Settings

On the *Day/Night Settings* page, you can configure the camera settings based on the time of day, or low-light conditions.

1. Select an option for **Day Night Switch Control**:
   a. **Auto** – the camera will automatically adjust the image settings for day time and night time, i.e., low-light conditions.
   b. **Color** – the video image will always be in color.
   c. **B/W** – the video image will always be in monochrome, i.e., black and white.
2. Select an option for **Time**:

   a. **Normal** – the camera will adjust based on changes in lighting.
   b. **Fast** – the camera will adjust quickly based on changes in lighting.
   c. **Slow** – the camera will adjust slowly based on changes in lighting. This can prevent unwanted adjustments caused be brief changes in lighting.
3. Drag the **Day to Night** slider to adjust the sensitivity as the camera switches from day to night.
4. Drag the **Night to Day** slider to adjust the sensitivity as the camera switches from night to day.
5. To change the **IR Mode**, select one of the following options from the *IR Mode* drop-down list:
   a. Auto – the camera will automatically enable or disable IR mode based on light conditions.
   b. On – enables IR mode.
   c. Off – disables IR mode.
   d. White LED On – the camera will use White LED as a light source in low-light conditions. Cameras with White LED turned on can provide color images rather than monochrome. In some situations, it helps if the camera can stream and record colored video, e.g., when searching for specific objects of interest.
6. To turn on Smart IR, select **ON** from the *Smart IR* drop-down list. The camera will automatically adjust the IR intensity to reduce overexposure as objects of interest move closer or further away.
7. To turn on Adaptive IR, select **ON** from the *Adaptive IR* drop-down list. The camera will automatically adjust the video image for saturation caused by IR illumination.
8. Drag the **Wide** slider to adjust the IR Level as the camera switches from day to night.
9. Click **Apply**.

Text and Event Overlay

On the *Text Overlay* page, you can enable and configure text and event overlays. The overlays are also stamped onto the video file for future reference.

The text overlay contains the following information:

- Device Name – the name of the device. You can change the device name on the *Device Information* page, located under the *System* settings.
- Date and Time – the date and time of the recording.
- Text – any custom text that you want displayed on the camera feed.

Follow these steps to configure the Text Overlays:

1. To enable a Text Overlay, select an option from the *Enable* drop-down menu.
2. If you selected **Device Name** or **Date and Time**, you can configure the following options:
   a. Background Color – select either black or transparent.
   b. Text Color – select either black or white.
   c. Location X – drag the slider to move the overlay horizontally.
   d. Location Y – drag the slider to move the overlay vertically.
3. If you selected **Text**, you can enter the text you want displayed in the overlay.
4. To turn off the overlay, select **Off** from the *Enable* drop-down menu.
5. Click **Apply**.

Follow these steps to configure the *Event* overlay:

1. To change the background color, select either **Transparent** or **Black**.
2. To change the text color, select either **Black** or **White**.
3. Drag the **Location X** slider to move the overlay horizontally.
4. Drag the **Location Y** slider to move the overlay vertically.
5. Click **Apply**.

Privacy Zones

On the *Privacy Zones* page, you can enable and configure privacy zones to protect privacy and other sensitive information. You can draw up to 8 regions to be blanked, i.e., hidden from view.

1. To enable Privacy Zones, toggle the **Enable** button.
2. Click and drag a region on the *Live Preview* area to assign a privacy zone.
3. To change the color of the privacy zone, select an option from the *Privacy Color Settings* drop-down list.
4. Click **Clear Zone** to erase the privacy regions from a zone.
5. Click **Apply**.

After you click **Apply**, you can return and edit the Privacy Zone by selecting the zone from the *Edit Zone* list. Remember to click **Apply** again to save your changes.

Compression & Image Rate

Use the Compression and Image Rate settings to reduce file size and improve storage capacity.

Select *Image & Display* on the left menu to expand the following tabs:

- Video Configuration – configure the compression standard, camera mode and edit the camera streams.
- Smart Codec – configure the Smart Compression Level (Smart Codec) for storage.

Video Configuration

On the *Video Configuration* page, you can change the camera mode and edit primary, secondary and tertiary streams.

1. Select from the **Compression Standard** options to change the compression method:
   a. H265 – better video compression than H264.
   b. H264 – the standard for video compression.
   c. JPEG – better image quality but less effective compression. JPEG will put strain on the network if the network has insufficent bandwidth.
2. Select from the **Resolution** list to change the image resolution.
3. Select an option from the **Rate Control** list:

   NOTE

   The rate control option determines the bit rate and quality of each frame in an H.264. video stream.

   a. CBR – Constant bit rate.
   b. CVBR – Constrained variable bit rate.
   c. VBR – Variable bit rate.
4. Select an option from the **Frame rate** list to increase or decrease the camera frame rate.
5. Use the **GOP Length** slider to increase or decrease the group of pictures (GOP). The default is 30.
6. Use the **Maximum Bitrate (kbit/sec)** slider to increase or decrease the maximum bitrate.
7. Toggle the **SVC-T** button to enable SVC-T.
8. Enter a value for the **QoS (DSCP) Codepoint**.
9. Select an option from the **Profile** list to assign a camera profile:

a. High – A complex profile with a high compression ratio. This is the primary profile for high-definition television applications; for example this is the profile adopted for Blu-ray and HD-DVD. The high profile supports I-frames, P-frames, and B-frames.
b. Main – An intermediate profile with a medium compression ratio. Main is the default profile setting. This profile is compatible with most recorders and uses fewer bits to compress video than the baseline profile; however, it uses more bits than the high profile. The main profile supports I-frames, P-frames, and B-frames.
c. Baseline – A simple profile with a low compression ratio. A baseline profile is compatible with more recorders but uses more bits to compress quality video than the other profiles. This profile supports I-frames and P-frames. Use the baseline profile in applications with limited scene changes; for example, an indoor scene with a single, unchanging primary light source and minimal motion.

10. Click **Apply**.

Smart Codec

On the *Smart Codec* page, you can enable configure the Smart Compression Level (Smart Codec). Smart Codec increases compression and further reduces file size. However, it will adversely affect image quality.

1. To change the **Smart Compression Level**, select from the following options:
   a. Off – no bitrate reduction.
   b. Low – no visible effect in most scenes.
   c. Medium – effect visible in some scenes.
   d. High – effect visible in many scenes.
2. To enable dynamic GOP length, toggle the **Enable Dynamic GOP Length** button.
3. Click **Apply**.

Analytics

Use the Analytics to enable and configure camera's analytic features.

Select *Analytics* on the left menu to expand the following tabs:

- Motion Detection – detects motion in a defined zone.
- Sabotage Detection – detects human tampering in a defined zone.
- Adaptive Motion – detects and tracks objects that enter a scene and then triggers an alarm when the objects enter a defined zone or move in a different direction.
- Camera Automation – defines the behaviors that occur when analytic events are detected.
- Manage Schedules – manages general schedule behavior.
- Events Log – search for events based on event types.

Motion Detection

On the *Motion Detection* page, you can enable and configure motion detection events.

1. Click and drag to define a region on the *Live preview* area.
2. To edit the camera's sensitivity, select an option from the *Sensitivity* drop-down list.
3. Drag the **Object size** slider to adjust the Object size requirements. The higher the value the larger the object must be to trigger an event.
4. Toggle the **Zone** buttons to enable automations. You can enable and configure 4 zones.
5. To enable Snapshots, toggle one of the following options:
    a. Store to Edge – snapshots will be stored in Edge storage. Use this option to store files locally, e.g., an SD card.
    b. Store to FTP – snapshots will be stored using FTP. Use this option to store files across servers on a local network.
6. To enable Recordings, toggle the **Edge Record** button.
7. To enable White LED, toggle the **Enable** button.
8. To enable Email, toggle the **Enable** button.
9. To enable Text Overlay, toggle the **Enable** button.
10. To enable HTTP Generic Event, toggle the **Enable** button.
11. Click **Apply**.

Manage Motion Detection Schedules

You can manage schedules to adjust the days and hours that motion detection is enabled.

1. Click **Manage Schedules.**
2. Edit the **Start Time** and **End Time** in each row to configure the time periods that you want to enable or disable Motion Detection.
3. Deselect the **Action** checkboxes to disable Motion Detection during the time period.
4. Click **Apply**.

Sabotage Detection

On the *Sabotage Detection* page, you can enable and configure Sabotage Detection events.

1. Toggle the **Enable** button to enable Sabotage Detection.
2. To edit the camera's sensitivity, select an option from the *Sensitivity* drop-down list.
3. To enable Snapshots, toggle one of the following options:
    a. Store to Edge – snapshots will be stored in Edge storage. Use this option to store files locally, e.g., an SD card.
    b. Store to FTP – snapshots will be stored using FTP. Use this option to store files across servers on a local network.
4. To enable Recordings, toggle the **Edge Record** button.
5. To enable Email, toggle the **Enable** button.
6. To enable Text Overlay, toggle the **Enable** button.
7. To enable HTTP Generic Event, toggle the **Enable** button.
8. Click **Apply**.

Manage Sabotage Detection Schedules

You can manage schedules to adjust the days and hours that sabotage detection is enabled.

1. Click **Manage Schedules.**
2. Edit the **Start Time** and **End Time** in each row to configure the time periods that you want to enable or disable Sabotage Detection.
3. Deselect the **Action** checkboxes to disable Sabotage Detection during the time period.
4. Click **Apply**.

Adaptive Motion

On the *Adaptive Motion* page, you can enable and configure adaptive motion events. You can create three adaptive motion events using the Line1, Line2 and Line3 buttons.

1. Click and drag to define a region on the *Live preview* area.
2. Toggle the **Line1** button to enable Adaptive Motion.
3. To set the direction, select an option from the *Direction* drop-down list:
    a. A -> B – triggers an event when the object moves to the right.
    b. B -> A – triggers an event when the object moves to the left.

4. To enable Snapshots, toggle one of the following options:
    a. Store to Edge – snapshots will be stored in Edge storage. Use this option to store files locally, e.g., an SD card.
    b. Store to FTP – snapshots will be stored using FTP. Use this option to store files across servers on a local network.
5. To enable Recordings, toggle the **Edge Record** button.
6. To enable Email, toggle the **Enable** button.
7. To enable Text Overlay, toggle the **Enable** button.
8. To enable HTTP Generic Event, toggle the **Enable** button.
9. Repeat these steps for Line2 and Line3.
10. Click **Apply**.

Manage Adaptive Motion Schedules

You can manage schedules to adjust the days and hours that adaptive motion is enabled.

1. Click **Manage Schedules.**
2. Edit the **Start Time** and **End Time** in each row to configure the time periods that you want to enable or disable Adaptive Motion.
3. Deselect the **Action** checkboxes to disable Adaptive Motion during the time period.
4. Click **Apply**.

Camera Automation

On the *Camera Automation* page, you can enable and configure Camera Automation functions. Camera Automation provides the following options:

- FTP – configure the FTP server information.
- Snapshot – configure snapshots.
- HTTP Generic Event – create and configure generic events.
- White LED – configure White LED.

Configure Camera Automation

1. To configure FTP, enter the following information:
    a. Server Address – enter the FTP server address.
    b. Port – enter the FTP server port number.
    c. Username – enter the administrator username.
    d. Password – enter the password associated with the administrator username.
    e. Mode – select a mode.
2. To configure Snapshots, enter the following information:

a. Pre-Record Frames – enter the number of frames to capture for each event. (1-10 frames)
b. Post-Record Frames – enter the number of frames to capture after each event. (no maximum)
c. Event Capture Interval – enter the number of seconds to capture snapshots. (1-10 seconds)

3. To configure an HTTP Generic Event, start by selecting a tab 1-10.

> **TIP**
> You can switch between methods to configure all 10 generic events before clicking **Apply**.

4. Configure the following fields for each Generic Event:
   a. Title – enter a title for the generic event.
   b. URL – enter the URL.
   c. Option – enter either **Get** or **Post** as the HTTP method for sending or requesting information from the server.
   d. Username – enter the administrator username.
   e. Password – enter the password associated with the administrator username.
   f. Active Message – type the active message.
   g. Inactive Message – type the inactive message.
5. To configure White LED, use the following options:
   a. Turnoff Time – enter the number of seconds to turnoff.
   b. Sleep Time – enter the number of seconds to sleep. (0-60 seconds)
6. Click **Apply**.

Manage Schedules

On the *Manage Schedules* page, you can enable and configure Schedule Management, as it applies to all of the other Analytic schedules.

1. To enable Schedules, toggle the **Enable** button.
2. To assign a Mode, select an option from the *Mode* drop-down list:
   a. Regular – the recording schedule will progress based on the trigger interval settings.
   b. Persist – the recording schedule will progress regardless of the trigger interval.
3. If you selected **Regular** as the Mode, you can adjust the *Trigger Interval* by dragging the slider. (5 - 3600 seconds)
4. To enable Snapshots, toggle one of the following options:
   a. Send to Onboard Storage – stores snapshots in Edge storage. Use this option to store files locally, e.g., an SD card.
   b. Send to FTP Server – stores snapshots using FTP. Use this option to store files across servers on a local network.

5. To enable Recordings, toggle the **Edge Record** button.
6. To enable Email, toggle the **Enable** button.
7. Click **Apply**.

Assign Schedules

You can assign schedules to adjust the days and hours that adaptive motion is enabled.

1. Click **Manage Schedules.**
2. Edit the **Start Time** and **End Time** in each row to configure the time periods that you want to enable or disable Schedules.
3. Deselect the **Action** checkboxes to disable Schedules during the time period.
4. Click **Apply**.

Events Logs

On the *Events Log* page, you can search for events using the Events Log.

1. Use the **Filter** checkboxes to deselect the event types to exclude them.
2. To manually adjust the time period, select the **Manual** option.
3. If you selected Manual, enter a **Start Time** and an **End Time**.
4. Click **Search**. The Events will appear in the Event List.
5. Click **Refresh** to refresh the list.
6. Click **Clean Up** to clear the list of events.

Storage

Use the Storage settings to manage how the camera stores video footage, and also access the stored footage.

Select *Storage* on the left menu to expand the following tabs:

- SD Status – configure SD cards. You can either overwrite the stored footage or enable encryption.
- Setting – configure the video recording settings on the SD card.
- Recording Mode – enable continuous recording.
- Recording List – search for recordings and download them.

SD Card Settings

On the *SD Card Settings* page, you can configure the following SD card settings:

- Record Type – the recordings are stored as video footage.
- Record Status – the recordings can be stored as either: one shot or continuous.
- Clip Duration – enter a number between 5 and 10 seconds.
- Clip Size – enter a value between 50 and 100 MB.
- Record Codec – select either H264 or H265.

Recording Mode

In the *Recording Mode* area, you can enable continuous recording. You must install an SD card before the device can record.

CAUTION

Enable Continuous Local Recording causes the device to ignore the SD record Automation settings you may have configured, and will overwrite the oldest video on the SD card when the SD card is full, Including any previously-recorded SD record video clips.

Recording List

In the *Recording List* area, you can select a day from the calendar to search for footage.

1. Select the checkboxes next to the recordings or use the **Select All** checkbox to select them all.
2. Click **Download** to download the recordings.

SD Status

In the SD Status area, you can overwrite the stored footage on the card or enable encryption. You must install an SD card before you can edit the SD status.

1. Toggle the **Overwrite** button to overwrite the stored footage.
2. Toggle the **Encryption Mode** button to enable encryption.
3. Click **Format** to reformat the SD card.

System

Use the System settings to manage camera settings, upgrade firmware versions and troubleshoot.

Select *System* on the left menu to expand the following tabs:

- Backup & Restore – download a full backup file of camera settings and/or upload a copy of previous camera settings to restore them.
- Firmware – view firmware information and upgrade firmware.
- Default & Reboot – reboot the camera or reset the camera to software or hardware default settings.
- Device Information – view device information and download device logs.

Back & Restore

On the *Backup & Restore* page, you can download a backup file of camera settings by clicking the **Download now** button. The backup file is downloaded as a tar.gz file.

You can also restore previous camera settings by uploading a tar.gz file.

NOTE

Restoring will cause the camera to restart.

1. Click the **Click to upload** button.
2. Select the tar.gz file on your local computer.
3. Click **Upload and restore**.

Firmware

You can view the system information and upgrade firmware on the *Firmware* page.

The system information provides the following information:

- Current firmware version
- Hardware version
- Model number
- Serial number

Upgrade Firmware

We recommend you keep the camera's firmware up-to-date to ensure you have access to the latest features and bug fixes. You can download the latest camera firmware from www.pelco.com/training-support/.

1. Select **Click to upload** to upload the firmware ppm file.
2. Locate the .ppm file on your local machine.
3. Click **Upload** to upload the firmware ppm file. The camera will start to upgrade to the new firmware.

Default & Reboot

You can reboot the device or reset the camera settings on the *Default & Reboot* page.

1. Click **Reboot** to reboot the camera.
2. Click **Software Factory Default** to reset the camera settings while preserving the network configuration.
3. Click **Hardware Factory Default** to reset all the camera settings to the factory defaults.

Device Information

You can view the following information on the *Device Information* page:

- Device name
- Current time
- Firmware version

Device Logs

Device logs provide information regarding device events, processes and system updates or errors. Device logs can be useful when troubleshooting device issues.

You can click the **Generate** button to download the device logs as a .tgz file.

More Information & Support

For additional product documentation and software and firmware upgrades, visit support.pelco.com.

Technical Support

Contact Pelco Technical Support at support.pelco.com/s/contactsupport.


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