

## Sarix® Professional Range Cameras

This document describes the features, operational issues, and known documentation fixes for Sarix Professional Range Series cameras. For additional information on these units (including the latest updates to documentation, product specifications, and software downloads), visit the Pelco Web site at [www.pelco.com](http://www.pelco.com).

**NOTE:** For technical issues, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international).

### Upgrading Firmware from Device Utility

1. Install Device Utility 2.3 or later, if it is not already installed.
  - a. Download Device Utility 2 from [www.pelco.com](http://www.pelco.com).
  - b. Run the DU2 installer.
2. Open Device Utility and log on with administrator credentials.
3. Refresh your device lists, if necessary, to identify the cameras you want to upgrade.
4. Select the cameras you want to upgrade.
5. Click the Update Firmware icon or right-click an individual camera and select Update Firmware.
6. Select the firmware file and click Open. The Perform Update dialog appears.
7. Click OK to accept the update.

The camera will install the updated firmware and then restart. The update process takes approximately 15 minutes to complete.

### UPGRADING FIRMWARE FROM ENDURA UTILITIES

1. Open Endura Utilities and log on. If upgrading cameras on an Endura® network, you must log on with administrative privileges to upgrade camera firmware.
2. Select the camera you want to upgrade in the System Attributes tab. (You can select multiple cameras by pressing and holding the CTRL or SHIFT keys while selecting cameras.) The camera appears in the right pane.
3. Click the Software Packages tab.
4. Click Add, locate the firmware file, and click Open.
5. Return to the System Attributes tab and select the camera to which you added firmware in previous steps.
6. Right-click the camera, select Device Macros, and then select Update in the right pane.

The camera will install the updated firmware and then restart. The firmware update process takes several minutes to complete.

### UPGRADING FIRMWARE FROM CAMERA WEB INTERFACE

1. Use Internet Explorer to access the camera via its IP address.
2. Click on the Login link in the upper right corner of the page and then enter credentials for the administrator.
3. Click Settings and then navigate to the Firmware page under the System menu.
4. Click Browse to select the firmware file and then click Upload.

The camera will install the updated firmware and then restart. The firmware update process typically takes up to 5 minutes to complete.

## **03.29.67 Firmware Release**

### **Major Fixes**

- Corrected a number of security issues.

## **03.29.65 Firmware Release**

### **Major Fixes**

- Corrected an issue preventing the 5MP mini dome camera using firmware version 3.28 from focusing correctly.
- Corrected an issue that caused excessive NAND flash memory wear out.

## **03.29.63 Firmware Release**

### **Major Fixes**

Note: Endura users should consider restarting the camera after updating the firmware.

- Corrected a issue causing IMP cameras on an Endura system to revert back to Greenwich Mean Time (GMT) despite being set to a different timezone.
- Corrected a problem causing recording gaps on IMP cameras on an Endura NSM5200 Series system.
- Corrected an issue causing cameras on a VideoXpert system to stop streaming.
- Corrected a problem causing some Profile G complaint cameras on a VideoXpert system to expect authorization on `getSystemDateAndTime` call.
- Corrected a problem preventing cameras from adjusting the time for daylight savings time on an Endura system.
- Corrected a stutter issue with images using Digital Sentry with cameras.
- Corrected a problem with multiple cameras sharing the same Endura UUID. To fix this problem, users may have to reboot the camera and force a recreation of the UDN.
- Corrected a problem with Bullet cameras not recording in-camera motion in Digital Sentry ControlPoint.

## **03.29.59 Firmware Release**

### **Improvements and Features**

- You can now require users to log in before viewing video through the camera's web interface by enabling the *Password required for liveview* option from the Users/General page within the Web interface.

### **Major Fixes**

- Corrected an issue causing IMP cameras on an Endura system with a NSM5200 to stop recording.
- Corrected an issue to change the default login webpage and require password authentication to view the live image on the web interface.
- Corrected an issue with ONVIF G playback that caused playback to always play at 1 FPS, rather than the expected FPS for the stream.
- Corrected an issue with ONVIF that caused the white balance values to not adjust as expected when modifying the white balance settings.

- Corrected an issue causing the IP address to become the factory default after turning the power off and on.

## 03.29.51 Firmware Release

### Improvements and Features

- Added support for IPv6 functionality.

### Major Fixes

- Corrected an issue preventing continuous local recording feature from resuming after restarting the camera.
- Corrected an issue causing the multicast IP address to revert to its default state when the camera restarted.
- Corrected an issue preventing ONVIF event notifications from being sent when an event occurred.
- DHCP-provided time server information is now configured correctly during the setup or restoring factory default processes.
- The maximum transmission unit (MTU) is now configurable through APIs.
- Corrected a security defect with the OpenSSL toolkit in Sarix Pro camera systems.
- Corrected an issue in the Pelco API with the "GetCurrentPresetName" API call so that it now returns the correct name of the video preset.
- Corrected an issue causing cameras to report the default alarm state to Genetec systems after a camera restart, rather than the actual state.
- Corrected an issue preventing the camera from returning QueryAllOptions secondary stream values for bit rate and GOP to Genetec systems.
- Corrected an issue preventing the Sarix IBP1110 from updating the IP address of cameras in the 206.x.x.x IP addressing scheme.

## 03.29.37 Firmware Release

### Major Fixes

- The RTSP server timeout parameter changed from 30 seconds to 60 seconds.
- Corrected an incorrect value reading for the default bit rate slider for the secondary stream in the camera UI.
- Corrected an SDK issue causing the initial NOTIFY message for camera sabotage events to come from the DiagnosticReporting service rather than from the VideoAnalytics service.
- Corrected an SDK issue for the IMP519 that caused an HTTP 500 error for VideoOutput::Connect call when StreamParameters.VideoQuality.bitrate was set to 0.
- Corrected an issue preventing IMP cameras from properly adjusting time for daylight savings time in Endura systems.
- Corrected an issue causing Endura WS5000 software to quit unexpectedly when attempting to set specific combinations of stream settings for Sarix Professional Series cameras.
- Corrected an issue causing the GetMDRegion call to report incorrectly for a full region using Motion Detection. The motion region response now correctly reflects regions set through the Pelco API; it may not necessarily correctly reflect motion regions drawn through the Web interface.
- Corrected an issue causing subscription requests for MotionDetection events to fail when the request did not contain the HOST header.
- Corrected an issue preventing users from setting multicast address, port, TTL, and continuallyStream parameters using the StreamConfiguration.SaveAllSettings call.

- Corrected an issue causing thePelco API ClearMDRegion call to reset relay status.

## 03.29.27 Firmware Release

### Improvements and Features

- Added support for ONVIF Profile G.
- Added new image rate options (12, 7.5, 3, and 2 ips) for video stream configuration.
- Improved CPU efficiency when multiple video streams are in use.

### Major Fixes

- Corrected a memory leak issue that caused recording gaps and the cameras to reboot.
- Removed background and text color labels from the General Settings screen in the user interface.
- Corrected an issue that caused CPU usage to increase by 20 percent when the live preview window opened within the Imaging, Motion Detection, and Window Blanking configuration screens.
- Corrected an issue that caused camera time settings in the user interface to change time zones when the device was renamed.
- Corrected an issue with the quick autofocus in 5 Mpx dome cameras that caused the camera to lose focus at 1.36x zoom.
- Corrected an issue that prevented the SMTP Notification Handler from sending an email after a physical alarm had been triggered.
- Corrected an issue that caused SetMDRegion calls using Motion Detection to return an incomplete response.
- Removed analytics menu options from the video pane in the Endura user interface that were not applicable to the Sarix Professional Series.
- Corrected an issue that prevented live video streaming in the Endura SM5200 Web application when the "High" video preset option was selected in the camera.
- Corrected an issue that caused ONVIF communication with Digital Sentry DVR to fail when the camera's secondary stream was cleared or disabled.
- Corrected an issue that caused the GetConfiguration call to time out during time setting updates.
- Corrected an issue that caused camera disconnection and recording gaps when streaming at 1 fps and 4 GOP using Lenel OnGuard®.
- Corrected an issue with the IBP519-ER bullet camera that caused camera video to set at the lowest possible bit rate value when configured with Lenel OnGuard.
- Corrected an issue with the IBP519-ER bullet camera that caused the camera's user interface not to update frame rate values when set using Lenel OnGuard.

## 03.29.21 Firmware Release

### Improvements and Features

- Added support for Lenel integration.
- Improved call-up latency to typically less than one second.
- Added an image overlay feature (OSD) that supports Chinese and Western character sets. Text overlays can be displayed in each of the four corners of the live stream and up to three overlays can be enabled simultaneously.
- Added support for Microsoft® Internet Explorer® 11 and 64-bit versions of IE.
- Added aspect ratio notation to video resolution options.

- Added Alarm Severity, Profile Name, and Delay before Alarm settings to the Sabotage Detection configuration page of the user interface.
- Added a one second video clip storage option for the SD Record Handler.
- Added support for audio line out integration with video management systems (VMS) through the Pelco API for models that are equipped with a physical line out.
- Added support for the AudioInputRtsp service of the Pelco API.
- Improved motion detection support for integrations with Exacq VMS.

## Major Fixes

- Corrected an IXP issue that caused the camera to oscillate between day and night settings when used with low wattage IR illuminators.
- Corrected an issue with the GetAllCurrentConfiguration call in the IMP319-1 camera that prevented default DSCP, bit rate, and GOP values from appearing in setting options.
- Corrected an issue in Endura Utilities that prevented the ntpAddress parameter from being returned after resetting to factory defaults.
- Corrected an issue in IMP219-1 and IMP519-ER cameras that prevented changes made to motion detection region parameters through the user interface from being reflected in the MotionDetection service or Endura.
- Corrected an issue that prevented the SNMP service from responding after the camera restarted.
- Authentication is no longer required for an ONVIF query for camera date and time.
- Corrected an issue causing differences between motion detection boundaries drawn in Endura and the camera's Web interface.
- Corrected an issue that allowed changes to video settings from Lenel OnGuard using invalid credentials after setting the camera to Closed Authentication.
- Corrected a issue that prevented Motion Detection changes made in the Web UI from propagating to Endura when integrated with Genetec applications.
- Corrected an issue that caused a delay in live video call-up of 10 seconds or more when the camera was set to 1 IPS and integrated with Lenel products.
- Corrected an issue that prevented event subscription when the camera was set to "Closed Authentication" through Web GUI in Genetec integrations.
- Corrected an issue that prevented users from setting a bitrate above 2500 kbit/second in Lenel integrations.
- Corrected an issue that prevented changes to motion detection regions made through the MotionDetection or Endura from being properly reflected through the camera interface.
- Corrected an issue that prevented the camera from displaying video when a user attempted to view live video too quickly after changing video settings.
- Corrected an issue that caused differences between URLs used for CGI calls from Sarix Professional Series cameras and other, Lenel-certified Sarix cameras.
- Corrected the GetMDRegion response to more closely match responses from other Sarix cameras. Note that, for Sarix Professional Series cameras, ClearMDRegions clears the mask but does not empty the region; region parameters will remain after using ClearMDRegions.
- Corrected an issue preventing a PelcoConfiguration.GetConfiguration call from returning the ntpAddress parameter following a factory reset.

## 03.28 Firmware Release

### Major Fixes

- Corrected an issue preventing the bit rate from decreasing proportionately when a lower bit rate was appropriate (for example, in simple scenes with little or no motion).
- Corrected an issue causing some cameras to generate the same UDN.
- Corrected an issue causing some cameras to disconnect unexpectedly from Digital Sentry® servers.
- Corrected an issue causing 5 MPx models to experience exposure oscillation in Day Mode at low lux levels.
- Corrected an issue preventing users from correctly setting threshold blocks for motion detection through both the Endura Workstation software or DS ControlPoint.
- Effectively lowered the call-up latency time for cameras below one second.
- Corrected an issue preventing users from logging in using passwords containing special characters.
- Users can now assign host names or device names containing periods to cameras.
- Corrected an issue causing a solarization effect in video from IBP models with IR, when the camera's IR LEDs were turned on.
- Corrected an issue preventing the camera's host name from reflecting a user's changes in the Web client. Now, when a user changes the camera's host name, the camera will restart and reflect the correct host name.

## 03.21 Firmware Release

### Improvements and Features

- Added a 640 x 352 secondary stream resolution.
- Added support for Microsoft® Internet Explorer® 10 without engaging the browser's compatibility mode.
- Enabled Motion JPEG viewing on the Imaging and Motion Detection pages of the Web interface.
- Enabled full browser support for Google Chrome, Mozilla Firefox, and Safari browsers. When accessing a camera using a browser other than Internet Explorer, QuickTime will be your default video viewer.
- Improved the sharpness and automatic white balance capabilities of IXP51 cameras.
- Improved the video quality of IMP cameras with IR LEDs (IMP-1ER models) when the IR LEDs are turned on.

### Major Fixes

- Reduced the time it takes to receive video after accessing the camera (call-up latency) under normal conditions.
- Corrected an issue preventing presets for Sarix Professional cameras from displaying properly in Endura environments.
- Corrected an issue causing the camera's Web interface to indicate custom image settings even when image settings were set to defaults.
- Corrected an issue causing a Connection Failed error on some tabs within the web interface, preventing users from watching the camera's motion JPEG stream while changing camera settings
- Corrected an issue in which incorrect video could appear in a browser tab when the user accessed multiple Sarix Pro Series cameras across multiple tabs within the same browser.
- Corrected an issue causing the camera OSD to flicker or disappear for up to 10 seconds within regular intervals.

## 03.16 Firmware Release

This release supports all Sarix Professional Range cameras.

### Improvements and Features

- Added support for Sarix Professional Range Box cameras (IXP models).
- Added support for the DeviceCapability service of the Pelco API.

### Major Fixes

- Corrected an issue causing the Web interface to display partially-loaded pages before a page finishes loading. This fix also reduces load times for pages within the Web interface.
- All 3 megapixel models now default to "High" preset stream settings.
- Corrected an issue preventing cameras from returning alarm or motion events when the camera was contained by an Endura environment and users subscribed to the camera's EventArbiter service using the Pelco API SDK.
- Corrected an issue preventing the StreamQuery::Query Pelco API call from returning correct information.

## 03.14 Firmware Release

This release is available for the following camera models:

Indoor Domes	Outdoor Domes (Non-IR)	Outdoor Domes (IR)	Bullets
IMPS110-1	IMPS110-1E	IMPS110-1ER	IBPS110-ER
IMP1110-1	IMPS1110-1E	IMPS1110-1ER	IBPS1110-ER
IMP219-1	IMP219-1E	IMP219-1ER	IBP219-ER
IMP319-1	IMP319-1E	IMP319-1ER	IBP319-ER
IMP519-1	IMP519-1E	IMP519-1ER	IBP519-ER

### New Improvements and Features

- Added support for audio capabilities through the Pelco API.
- Added support for motion detection capabilities through the Pelco API.
- The camera's Web-based user interface sets a default bit-rate and limits based on resolution and frame rate settings.
- Added support for Milestone and Genetec software through the Pelco API.
- Added support for Pelco DX4700/DX4800 systems.

### Major Fixes

- Improved overall stability, to prevent interruptions in video recording.
- Improved overall image quality.
- Corrected an issue that occasionally caused video to appear in an incorrect aspect ratio when using QuickTime.
- Corrected issues caused when switching between Day and Night modes.

## 03.06 Firmware Release

### New Improvements and Features

- Sarix Professional Range cameras are now ONVIF conformant.

### Major Fixes

- Corrected an issue causing cameras to respond with 0 for all magnifying related queries from the Pelco API.
- Removed the Full Range Auto Focus button from the Live View page. Full range auto focus operations can take up to four minutes to complete, and therefore is only available to users assigned an appropriate role. Full range auto focus can now be performed from the Focus page under the Imaging menu.
- Corrected an issue preventing users from viewing the Quick View stream using QuickTime.

## 03.03 Firmware Release

### Operation Notes

- When changing the Zoom factor, it may take up to 30-35 seconds for the image to focus completely.
- The Full Range Auto-Focus command can take several minutes to complete its focus algorithm. For faster focus use the Quick Auto-Focus feature.
- The Pelco Device Utility (DU2) may display a warning icon (exclamation mark) for discovered Sarix Professional cameras. Consider increasing the Discovery Timeout value within the Device Utility application to 8000 milliseconds.
- Video cannot be displayed in the Live View or Preview windows of the Web UI on the 64-bit version of Internet Explorer. Sarix Professional cameras do not support the 64-bit version of Internet Explorer. The 32-bit version must be used. Both versions appear in the Start Menu on 64 bit systems.
- The Pelco Media Player (PMP) is the preferred viewer for control, smoothness, and reduced latency as compared to QuickTime. PMP can play H.264 streams. It will not play MJPEG streams. Camera demonstrations can also be performed using an RTSP stream to VLC or another H.264 decoder/player.

### Integration Notes

- The Pelco API SetConfiguration, DeviceCapability and GetCurrentPresetName calls return faults. These API calls are not supported at the time of initial product release.
- The Lens Control Zoom command of the Pelco API does not affect the camera. The camera responds with a 200 OK message but nothing happens. Zoom is only supported through the Web client in the initial release.
- The camera does not support 640x352 resolution at this time. To view video using a 3 x 3 or 4 x 4 Endura layout, the secondary stream should be configured with a resolution of 360 x 180.



## Contact Information

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## Document Revision History

Document #	Date	Comments
C1062RN-C	1/14	Added version 3.21 release information.
C1062RN-D	3/14	Added version 3.28 release information.
C1062RN-E	7/14	Added version 3.29.21 release information.
C1062RN-F	10/14	Added version 3.29.27 release information.
C1062RN-G	2/15	Added version 3.29.37 release information.
C1062RN-H	7/15	Added version 3.29.51 release information.
C1062RN-I	3/16	Added version 3.29.59 release information.
C1062RN-J	3/17	Added version 3.29.63 release information.
C1063RN-K	8/17	Added version 3.29.65 release information.
C1063RN-L	1/18	Added version 3.29.67 release information.

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