

Next Gen Sarix Enhanced Series

This document describes the features and operational issues for the Next Gen Sarix Enhanced Series cameras. Review each section to determine if an upgrade is warranted for your installation. For additional information on the unit (including the latest updates to documentation, product specifications, and software downloads), visit the Pelco Web site at 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.
 - 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 firmware update process takes several minutes to complete.

Upgrading Firmware From Camera Web Interface

1. Use a Web browser of your choice 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 3 minutes to complete.

6.4.2.2 Release

Improvements and Features

- Added smart compression v2 WSDL.
- Added audio codec AAC.
- Added audio recording in Local Recording.
- Added SD card status monitoring.
- Added sensitivity slider in motion detection settings WebUI page, under Events.
- Updated the Pelco logo.

Major Fixes

- Corrected an issue that caused Live Video and Recording to stop for the Pelco Sarix Enhanced II camera when the default 554 RTSP stream port was changed.
- Addressed an issue that caused Motion Detection to differ between an object moving from left to right versus up and down.
- Corrected a problem that caused Sarix Enhanced II video to stutter when observed on DS ControlPoint or VxOpsCenter.
- Corrected an issue that caused camera maximum transfer unit (MTU) value changes after a firmware update.
- Corrected an issue that caused the Sarix Enhanced Analytic Overlay to display improperly on VxOpsCenter Client.
- Corrected a problem that caused Sarix Enhanced II invalid analytic data to be sent out, which did not compensate for orientation. This resulted in the wrong overlays being displayed.

6.4.1.7 Release

Major Fixes

- Corrected a problem in the factory production of units that could cause image calibration to fail.

6.4.1.6 Release

Improvements and Features

- Added cybersecurity improvements:
 - Added the ability to set TLS (formerly SSL) to “Required” in the Web Client which disables HTTP access.
- Added formatting options for the date and time in the on-screen display text.
- Added support for SNMP version 1.
- Added integration support for Andover Continuum software system.

Major Fixes

- Corrected a problem that could cause Day Night mode switching to not work in some web UI use cases.
- Corrected an issue causing an out of focus issue on some IXE cameras.
- Corrected a problem that could cause a “Focus Step Error” in the web UI on some IXE cameras.
- Corrected a problem when the secondary stream is set to H.264 baseline, an error message shows up saying, “higher than 1080P resolution is not available with baseline profile.”
- Corrected an issue with the IME329 camera returning rtsp://0.0.0.0/stream1 in ConnectionURL list for StreamDiscovery call in an IPv6-only environment.
- Corrected an issue preventing the camera from recording or streaming video when in an IPv6-only environment.
- Corrected a problem causing video stutter on DS ControlPoint, VxOpsCenter, Endura, and ONVIF Device Manager.
- Corrected an issue with the analytic overlay not properly appearing on the VxOpsCenter.
- Corrected a problem with saving the GMT+9.5 (Australia/Adelaide time zone) as well as GMT+5.5 (Asia/Kolkata time zone).

6.4.0.4 Release

Improvements and Features

- Added support for the ability to view analytics overlays in VideoXpert.

Major Fixes

- Corrected a problem with Line Out not functioning on the bullet camera.
- Corrected an issue where after restoring a backup with DHCP set to Off (Static), you were unable to access the camera after a backup.
- Corrected a problem with several web user interface screens not being localized including audio device options, Download on the Snapshot Viewer page, strings on the Users and Security page, Temperature Change Refocus strings, and some strings on the Imaging/General page.

6.3.0.5 Release

Major Fixes

- Corrected an issue causing a LED indicator to fail to turn off automatically after the camera finished the boot-up process on some cameras.

6.3.0.3 Release

Improvements and Features

- Added support for a new Defog mode.
- Added support and enabled ONVIF events for analytics.
- Increased the range of shutter speeds selectable to 1/10000 a second.
- Added an Object Size setting in the Motion Detection Web Client UI page for configuring the Motion Detection threshold.

Major Fixes

- Corrected an issue causing camera times not to update with Daylight Savings Time in the Southern Hemisphere time zones such as New Zealand and Australia.
- Corrected a problem with VideoXpert VxOpsCenter being unable to retrieve local storage from the camera's SD card.
- Corrected a problem with Edge playback not working using a Genetic Milestone system.
- Corrected a problem with the SD card not formatting correctly on some cameras.
- Corrected a problem with Smart Compression turning off when Digital Sentry sets other settings.
- Corrected an issue causing motion detection ON and OFF events to not trigger correctly.
- Corrected a problem with camera oscillation using bright external IR illuminators.
- Corrected an issue with ONVIF to add GetAccessPolicy and SetAccessPolicy support.
- Corrected an issue causing video to not stream in the Web Client for users with Viewer permissions.
- Corrected a problem causing the physical Reset button not to reboot the camera.
- Corrected an issue with the Auto Focus trigger time and refocus time in the log having an offset of hours.

6.2.2.35 Release

Improvements and Features

- Improved camera Cybersecurity, added Cybersecurity firmware features including:
 - Revamped the Users and Security settings page in the camera's web user interface.
 - Added the ability to require authentication to view a video stream.
 - Added verification of a valid firmware PPM file prior to firmware being upgraded.
- Added support for Endura Signing.
 - Added Endura Signing in the video configuration section of the web user interface supports video authentication with the Endura Export Player.
 - **NOTE:** After updating a camera to 6.2.2.35 firmware, for Endura Signing to correctly authenticate exported video clips, Endura Signing must be enabled in the camera's web client and "Reset Security" must be performed using Pelco Utilities.

Major Fixes

- Corrected problems causing some ONVIF conformance tests to fail using ONVIF Device Test Tool version 17.06.
- Corrected an issue causing the Image Quality field to not change on the camera webpage to reflect the same value as in the Genetec Security Center Config Tool.
- Corrected a problem with the cameras causing multicast addresses not to update to reflect a new IP address when moved to a new network.

6.2.2.26 Release

Improvements and Features

- Added support for NTCIP Kapsch. Cameras now support both the NTCIP 1205 and Kapsch standard. Protocol Option "NTCIP" and "Kapsch" protocols are added in the camera Web UI Network>SNMP Configuration page.
- Added support for ONVIF Video Source Mode.

Major Fixes

- Corrected an issue with the resolution in the ONVIF Video Encoder Configuration not matching the resolution of the actual stream.
- Corrected an issue causing the IPCONFIG tests failing in the ONVIF Device Test Tool with IPv6 enabled.
- Changed the camera settings to enable IPv6 by default.
- Corrected a problem causing the camera Relay starting out as "Normally Close" for a few seconds before coming "Normally Open" by default when rebooted.
- Corrected a problem causing the camera to respond "NotAuthorized" to ONVIF GetAccessPolicy request.

6.2.2.23 Release

Improvements and Features

- Added support for Pelco H.264 Smart Compression Technology. Pelco's H.264 Smart Compression Technology lowers bandwidth and storage requirements by up to 70%.
 - Added Smart Compression settings, including four compression levels and the ability to select Dynamic GOP.

- Added NTCIP 1205 support. Cameras now support, and are compliant with, the NTCIP 1205 standard.
- Improved the camera Day/Night mode switching for all five transition levels.
- Added language localizations for the Smart Compression and RTP Settings Web User Interface pages.
- Snapshot URL http://camera_ip/jpeg now provides the maximum resolution JPEG picture matching the highest resolution of the Primary or Secondary stream that is configured as a MJPEG stream or the QuickView stream.

Major Fixes

- Corrected an issue causing audio not to function sometimes properly in a mixed Endura and VideoXpert environment.
- Changed the camera Relay to be an open circuit (e.g. Normally Open) by default.
- Corrected problems causing some Profile G and Profile Q tests to fail using ONVIF Test Tool version 17.01.
- Corrected a problem causing some imaging tests to fail using ONVIF Test Tool version 17.01.

6.2.2.8 Release

The 6.2.2.8 firmware is the initial release for all Next Gen Sarix Enhanced Series cameras including the Box (IXE+), 3-9 mm and 9-22 mm Mini Dome (IME+) and Bullet (IBE+) form factors.

Improvements and Features

- Added a Web Client page to configure RTP settings, including multicast addresses and ports, and TCP Maximum Transfer Unit (MTU).
- Improved the MTU setting so that the RTP packet size is now constant and matches the MTU setting value from the web user interface.
- Added WDR strength slider functionality in the Web Client page to allow users to manually adjust the WDR minimum exposure ratio.
- Improved Text Overlay readability on the on-screen display.
- Added support for the ONVIF firmware update feature of Profile Q.

Major Fixes

- Corrected an issue causing VideoXpert to occasionally report a false gap in recorded video. VxOpsCenter would show gaps along the recorded video timeline, but the camera's video would be available.
- Corrected a problem causing incorrect responses from GetServiceCapabilities requests.
- Corrected a problem causing the Chinese Text Overlay in Subtitle to be displayed incorrectly.
- Corrected an issue preventing the WDR setting in the web interface from reverting to the default WDR High (On) when restoring image settings to defaults.
- Corrected a problem causing the Zoom and Focus controls to appear on the Help page.
- Corrected an issue causing Mini Dome 9-22 mm and Box cameras to remain in Night Mode even in very bright scenes that should have switched the camera to Day Mode.
- Corrected a problem with the zoom slider not matching magnification between the Liveview page and the Focus page.
- Corrected a problem that Pelco API GetAllCurrentConfiguration does not return all available frame rates.
- Corrected an issue occasionally causing recording gaps of less than two minutes when the camera had run for an extended period of time.

- Corrected an issue causing the camera to delete more local data than expected from the SD card after reaching 85% capacity.
- Re-enabled temperature refocusing in all modes.
- Corrected an issue causing the camera to occasionally not focus correctly when the camera exits Night Mode.
- Corrected an issue causing Box cameras to experience fluctuating brightness in low light.

6.2.1.73 Release

Improvements and Features

The 6.2.1.73 release is the initial release for the Next Gen Sarix Enhanced Bullet cameras and includes fixes for the Mini Dome cameras.

- Added support for 100 Mb (full duplex) network speed in the web user interface.
- Added support for refocusing the lens based on lower or higher temperature.

Major Fixes

- Corrected a problem allowing the camera to focus on the cover glass of the unit.
- Corrected an issue causing time drifts from 12 to 18 seconds during the course of a week.
- Corrected an issue causing the camera timestamp to jump, resulting in false recording gaps within VideoXpert; VxOpsCenter would show gaps along the timeline, but the camera's video would be available.
- Corrected an integrations issue with Genetec systems where the H.264 1600 x 1200 and 2048 x 1536 resolutions were listed in GetVideoEncoderConfigurationOptions, but not applied.
- Corrected an issue with the QuickView view stream setting so that full resolution video plays smoothly and is not pixelated.
- Corrected an issue causing IBE series cameras to experience very slow upload speeds in 100 Mb mode.
- Corrected an issue requiring users to restore all camera defaults to restore camera functionality after performing a firmware upgrade.
- Corrected a problem preventing IBE series cameras from focusing at full telephoto.
- Corrected an issue preventing users from viewing or playing back video from an NSM5200 recorder after updating cameras to version 6.2.1.65.
- Corrected an issue with bullet cameras on an Endura system where a Motion Detection Zone was set up by default.
- Corrected an issue causing an SD card to run full and stop local recording with Continuous Local Recording on.
- Corrected a problem with WDR mode changing but having little effect on some scenes.
- Corrected an issue causing the camera to respond to ONVIF calls as if audio was enabled by default.

6.2.1.61 Release

Major Fixes

The 6.2.1.61 release only applies to Next Gen Sarix Enhanced Mini Dome cameras (e.g. IME129, IME229, and IME329).

- Corrected an issue preventing cameras from appearing in the VideoXpert OCC client with RC14.60 firmware.

- The factory default H.264 profile is now High, rather than Main, and the default bit rate is 8800 kbps.
- Corrected an issue preventing overlays from displaying on MJPEG with 16:9 aspect ratio in Corridor Mode.
- Corrected a problem causing discrepancies in imaging settings between Genetec systems and the camera's web interface, for cameras added to Genetec using the ONVIF driver.
- Removed primary and secondary stream options when using Google Chrome or Mozilla Firefox; these options were no longer applicable to the browsers.
- Corrected a problem preventing time stamps from keeping the correct time after a reboot.
- Corrected an issue preventing time change from GMT-7 to GMT-8.
- Corrected an issue with the web user interface where some settings were not retained after a PPM update.
- Corrected an issue preventing RTP settings from being restored when restoring camera settings from a backup.
- Corrected an issue causing the web interface to show two alarms instead of one under Settings/Events/Sources.
- The user interface now provides adequate feedback when a user changes RTP settings.
- Corrected an issue preventing users from viewing the secondary multicast stream if set to certain resolution and frame-rate combinations.
- Focus/Zoom Control and Steam Selection now require a password by default.

DOCUMENT REVISION HISTORY

Document #	Date	Comments
C1081RN	1/26/16	Added version 6.2.1.61 release information.
C1081RN-A	2/27/17	Added version 6.2.1.73 release information.
C1081RN-B	5/30/17	Added version 6.2.2.8 release information.
C1081RN-C	7/6/17	Added version 6.2.2.23 release information.
C1081RN-D	8/17/17	Added version 6.2.2.26 release information.
C1081RN-E	11/15/17	Added version 6.2.2.35 release information.
C1081RN-F	2/21/18	Added version 6.3.0.3 release information.
C1081RN-G	3/30/18	Added version 6.3.0.5 release information.
C1081RN-H	7/23/18	Added version 6.4.0.4 release information.
C1081RN-I	11/16/18	Added version 6.4.1.6 release information.
C1081RN-J	01/15/19	Added version 6.4.1.7 release information.
C1081RN-K	07/03/19	Added version 6.4.2.2 release information.

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