

Sarix® Firmware for IME and IXE Enhanced Series Cameras

This document describes the features, operational issues, and major fixes for the Sarix Enhanced IME and IXE Series cameras. Review each section to determine if an upgrade is warranted for your installation. For additional information 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).

2.2.2.1 IME and IXE Release

New Features and Improvements

- To improve security, a login is now required to access live video from the Web client.

Major Fixes

- Corrected a problem causing video stuttering and lagging after updating to firmware version 2.2.1.3.
- Corrected an issue preventing the Max Gain slider in the web interface from functioning.
- Corrected a problem causing the PullMessageRequest to fail using ONVIF Device Manager.

2.2.1.3 IME and IXE Release

Major Fixes

- Corrected a problem causing audio settings for IME mini dome cameras to change from Native Microphone In to Native Line In after power cycling the camera.
- Optimized manual focus settings for better user experience.
- Corrected an issue that caused IME cameras to provide invalid timestamps in video files.
- Corrected a problem preventing cameras from maintaining their IP addresses after performing a soft reset via the ONVIF API.
- Corrected an issue with the Stream Configuration of the Pelco API where the Secondary Stream resolution could only be set lower than Primary.
- Corrected a problem causing analytics to show artifacts and report false alarms.

2.1.2.0 IME and IXE Release

Major Fixes

- Corrected an issue that caused cameras to default to a manual focus setting of 50. Cameras now default to the optimal focus position when switched to manual focus.
- Corrected an issue that caused cameras to generate incorrect timestamps in metadata.
- Corrected an issue that caused a delay when a camera was restarted.
- Repaired an issue with ONVIF G where local storage searches caused a resource leak.

2.1.1.3 IME and IXE Release

Major Fixes

- Corrected an issue that prevented cameras from reconnecting to a Milestone VMS using ONVIF G.
- Corrected an issue that caused cameras to stop sending the primary stream, in both unicast and multicast modes.
- Corrected an issue affecting cameras connected to an SM5200 system, which caused the cameras to go offline after changing the renewal interval time.
- Improved performance of several stream configuration settings, including enabling users to adjust the aspect ratio through a Digital Sentry system.
- Enabled automatic adjustment of the bit rate to correspond to changes made to resolution.
- Corrected an issue that caused the image overlay to disappear from the Live View page if a text overlay was not also used. The image overlay would typically disappear after changes were made to stream configuration settings. The image and text overlays now function independently and are not affected by changes to other settings.

2.1 IME and IXE Release

New Features and Improvements

- Added the ability to record video and audio to the camera's local SD storage. The only SD card presently approved for use with IME and IXE Series cameras is the 32 GB SanDisk Extreme® PLUS microSDHC™ UHS-I card.
- Added support for additional Pelco analytics, including Adaptive Motion, Camera Sabotage, Loitering Detection, Object Counting, Abandoned Object, Directional Motion, Object Removal, and Stopped Vehicle behaviors.
- Added support for motion detection through the Pelco API. This motion detection is analytics based.
- Added support for both primary and secondary video streams through the ONVIF API.
- Improved overall video stream control, allowing independent configuration of primary and secondary streams. The camera now supports up to two 1080p, 30 fps streams.
- Adjusted several default imaging settings to improve color in most scenes.
- Implemented the ONVIF Advanced Security Service.

Major Fixes

- Corrected an issue in which analytic alerts were triggered incorrectly when the camera refocused.
- Corrected an issue that caused continuous oscillation between day and night settings as well as extreme low-light focus failures with independent IR illuminators.
- Fixed an issue that caused extreme low-light oscillation for IXE Series box cameras.
- Corrected brightness control within the Web UI. It was previously incorrectly tied to exposure control.
- Corrected micro-fluctuations in brightness related to WDR.

2.0.1 IME and IXE Release

Major Fixes

- Corrected a vulnerability related to the Heartbleed bug.
- Corrected an intermittent issue causing the camera to enter into a state in which it awaited a firmware update when trying to start up. The issue was corrected by improving the robustness of the camera's internal memory management.
- Corrected an issue causing cameras to disconnect from Milestone systems.

2.0.0.11 IME and IXE Release

New Features and Improvements

- Improved auto white balance to produce truer color in bright scenes.
- Added focus controls to the Live View page for IXE models; these controls are accessible only when logged on to the camera. This functionality was already available for IME models.
- Improved the wide dynamic range and exposure capabilities to correct brightness, saturation, and image noise in most scenes.
- Improved low-light capabilities to avoid abrupt changes to the image.
- Improved default video settings and video presets to use constrained variable bit rate (CVBR) for higher quality and more efficient video storage.
- Improved default video preset settings for better out-of-the-box image quality.

Major Fixes

- Corrected an analytics issue that prevented motion detection events from being reported properly.
- Corrected an issue that prevented analytics settings from being restored from a backup file.

2.0.0.9 IME Release

New Features and Improvements

- Corrected an issue that caused the 802.1x port security network setting to prevent a user from logging on to the camera after updating firmware from the Device Utility 2.
- Corrected an issue in Sarix Enhanced IME Series cameras that caused video and time to “freeze” within a stream when viewed from a decoder or video console display (VCD).
- Corrected an image quality issue that caused border pixel corruption near the top edges of snapshots taken within the user interface.

Known Integration Issues

- Corrected a time change issue in Endura live streams and video playback that prevented automatic adjustment to Daylight Savings Time.

2.0.0.7 IME Initial Release

New Features and Improvements

- Fixed an auto focus issue in Sarix Enhanced IME Series cameras that occurred when cameras were set to the widest zoom (default) position.
- Improved filtering to correct a perceptible loss of high-frequency detail when a noise filter was applied to bright scenes.
- Corrected an issue with excessive noise (“sparkling”) on sharp edges and in some flat field areas related to the default flicker setting.
- Reduced noise levels, especially in wide dynamic range and low-light conditions.
- Corrected flare control to eliminate pulsing effect in low-light, wide dynamic range scenes.
- Improved image quality in foreground of low-light, wide dynamic range scenes.
- Corrected an issue that caused the sharpness slider in the image quality controls of the user interface to produce only a few discrete sharpness settings. The slider's behavior now provides a full range of sharpness control.
- Corrected a bright-to-dark oscillation effect in bright, daytime, outdoor video scenes when flicker control was turned on.
- Corrected an issue with wide dynamic range noise that prevented the Day/Night auto switch from functioning properly.
- Modified motion compensation settings to reduce noise levels in exposures longer than 150 ms in wide dynamic range.
- Eliminated artifacts that appeared on moving objects in outdoor scenes for cameras located indoors and looking outdoors through windows.
- Corrected a PPM update failure from the Device Utility that caused the camera to reset or crash.
- Corrected an issue that occasionally caused the camera to stop transmitting live video to the web interface; if this error occurred, the camera’s web interface displayed a frozen image.

Known Integration Issues

- This release does not support the Get Log File and Get Bug Report functions in Endura Utilities.
- Enable SSH is not a supported option when using Sarix IME Enhanced Series cameras with Endura Utilities. Use the Web UI to perform this operation.
- For integration issue support, visit the Pelco Developer Network at www.pdn.pelco.com.

2.0.0.6 IME Beta Release

General Behaviors and Usage Suggestions

- Sarix Enhanced IME Series cameras are compatible with Device Utility 2 version 2.3 or later. Earlier versions of Device Utility will not find IME Series cameras. Upgrade to the latest version of DU2 from www.pelco.com.
- Sarix Enhanced IME Series cameras are PoE Class 3 devices (12 W) and have industry leading processing capabilities that use higher power. Consequently, the cameras run hot. The metal enclosure for the electronics module of the dome is designed to dissipate heat from the electronics. The electronics module of the dome must always be operated from, and mounted within, the enclosure that is shipped with the camera. The normally high operating temperature will not cause damage to the camera.
- The camera's fan will only turn on when the camera approaches the maximum operating temperature. Calculated reliability and accelerated-life testing has proven that the camera will operate in high-temperature environments. Even if the unit feels hot to the touch, the fan will not turn on under most operating conditions. This is normal behavior, and the unit is not in danger of overheating.

Known Integration Issues

- This release does not support the Get Log File function in Endura Utilities.
- Enable SSH is not a supported option when using Sarix IME Enhanced Series cameras with Endura Utilities. Use the Web UI to perform this operation.
- For integration issue support, visit the Pelco Developer Network at www.pdn.pelco.com.

2.0.0.5 IXE Release

General Behaviors and Usage Suggestions

- Sarix Enhanced IXE Series cameras are compatible with Device Utility 2 version 2.3 or later. Earlier versions of Device Utility will not find IXE Series cameras. Upgrade to the latest version of DU2 from www.pelco.com.
- Sarix Enhanced IXE Series cameras are PoE Class 3 devices (12 W) and have industry-leading processing capabilities that use higher power. Consequently, the cameras run hot. The metal enclosure for the electronics module of the camera is designed to dissipate heat from the electronics. The normally high operating temperature will not cause damage to the camera.
- The camera's fan will only turn on when the camera approaches the maximum operating temperature. Calculated reliability and accelerated-life testing has proven that the camera will operate in high-temperature environments. Even if the unit feels hot to the touch, the fan will not turn on under most operating conditions. This is normal behavior, and the unit is not in danger of overheating.

Known Integration Issues

- For integration issue support, visit the Pelco Developer Network at pdn.pelco.com.

Contact Information

Pelco by Schneider Electric
3500 Pelco Way, Clovis, California 93612-5699 United States
USA & Canada Tel: (800) 289-9100, Fax: (800) 289-9150
International Tel: +1(559) 292-1981, Fax: +1(559) 348-1120
www.pelco.com **www.pelco.com/community**

Document Revision History

Document #	Date	Comments
C1063RN	9/13	Original version.
C1063RN-A	9/13	Updated with version 2.0.0.7.
C1063RN-B	11/13	Updated with version 2.0.0.9.
C1063RN-C	2/14	Updated with version 2.0.0.11.
C1063RN-D	8/14	Updated with version 2.0.1.
C1063RN-E	9/14	Updated with version 2.1.
C1063RN-F	1/15	Updated with version 2.1.1.3.
C1063RN-G	3/15	Updated with version 2.1.2.0.
C1063RN-H	3/17	Updated with version 2.2.1.3.
C1063RN-I	10/17	Updated with version 2.2.2.1.

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