

# Avigilon H4 Pro Camera Line

## Firmware Release Notes

### **Version 4.4.0.80 – Released June 3, 2021**

#### **Issues Fixed**

- Addresses an important security issue. Avigilon customers are advised to take this upgrade

### **Version 4.4.0.76 – Released May 21, 2021**

#### **Issues Fixed**

- Addresses an important security issue. Avigilon customers are advised to take this upgrade
- Fixes an issue where lens focussing would not function properly, when using certain Tamron lenses

### **Version 4.4.0.64 – Released April 20, 2021**

#### **Issues Fixed**

- Fixes an issue where Auto-focus would not function correctly when using a Sigma 18-35mm lens

### **Version 4.4.0.56 – Released November 4, 2020**

#### **Issues Fixed**

- Fixes an issue where some lenses could not be focussed properly from Avigilon Control Center or from the camera's WebUI

### **Version 4.4.0.52 – Released July 24, 2020**

#### **Issues Fixed**

- Fixes an issue where some cameras would display an error state in Avigilon Control Center, after upgrading the camera firmware from an older version

### **Version 4.4.0.48 – Released July 10, 2020**

#### **Issues Fixed**

- Fixes an internal manufacturing test issue

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### Version 4.4.0.40 – Released June 11, 2020

#### Issues Fixed

- Fixed an issue where the camera would reboot intermittently after streaming for several hours
- Fixed an issue where recordings to the SD card were sometimes recorded with the incorrect timestamp and timezone
- Fixed an issue where cameras would sometimes continue recording to the SD card, after setting the recording job to idle
- Fixed an issue where the video stream would continuously restart when the resolution was set certain resolutions

### Version 4.4.0.28 – Released Apr 28, 2020

#### New Features

- Added support for edge storage and retrieval via Profile G conformance. Supported Profile G compliant VMSes can retrieve video recordings from the camera's SD card. Cameras that are upgraded to this firmware version will need to enable Profile G functionality from the camera's WebUI. Enable Profile G option can be found in Setup > Storage tab. Refer to the web interface user guide to configure edge storage settings. Note: Once enabled, the "Enable Profile G" button will disappear.
  - Avigilon Control Center users require version 7.6 or later to support video retrieval functionality from the camera's SD card.
  - Video playback is only supported for recordings in H.264 format. MJPEG videos can be stored on the SD card but cannot be retrieved by the VMS.
  - Profile G functionality is not applicable for ES cameras.
- Added proper character and formatting checks on NTP server hostnames
- Enable support for HTTP Strict Transport Security (HSTS)

#### Issues Fixed

- Fixed an issue where sometimes a new user cannot be created when no users currently exist on the camera
- Reduced bounding box latency on video. Please use UDP transport for the lowest latency
- Fixed an issue where manual time entry with timezones was not calculated properly
- Corrected an issue where analytic bounding boxes would not appear on 3rd party VMS

### Version 3.30.0.84 – Released Apr 24, 2020

#### New Features

- New cameras manufactured will have no default password and added a password strength meter
- Added support for ONVIF digital input support
- Added support for manual ethernet speed and duplex settings

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- Added support for analytics metadata bounding boxes to be in ONVIF compliant format
- Added a long range analytic mode and this can be enabled using the Camera Configuration Tool or Avigilon Control Center
- Added support to set Subject Alternative Name via ONVIF or as a part of the certificate
- Added support to enable/disable Tamper detection. The setting can be found in the Tamper Detection tab under Setup on the camera's WebUI.
- Added support for Dominant Color Correction as an alternate white balance option
- Added support for TLS v1.2 for 802.1x interface
- Added support for ONVIF Profile T

### Issues Fixed

- Fixed an issue where the hostname cannot start with a digit
- Corrected an issue where privacy zones sometimes cannot be deleted in the WebUI
- Fixed an issue where analytic events are being triggered again when connections are restored to a VMS

## Version 3.16.0.252 – Released November 15, 2018

### New Features

- Added support for ONVIF Profile S compliance. To change to ONVIF mode “Enable ONVIF compatibility” checkbox will need to be selected in the WebUI, the camera will need to be disconnected and reconnected if this mode is enabled on an active camera and ACC connection. This change once enabled cannot be reverted, the camera will transition to a new driver and will continue to function normally.
- Added support to disable HTTP from the WebUI.

### Issues Fixed

- Fixed an issue where streaming over TCP to ACC might result in dropped frames.

## Version 3.16.0.238 – Released August 23, 2018

### New Features

- Added support for LEF247028TA2 lens.

## Version 3.16.0.168 – Released July 11, 2017

### Issues Fixed

- Fixes critical vulnerability CVE-2017-9765. While the risk for Avigilon products installed behind a firewall or isolated network is limited, we highly recommend all users to update to this release.

## Version 3.16.0.108 – Released May 30, 2017

### New Features

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- Added support for HDSM SmartCodec

### Issues fixed

- Fixed an issue where the camera may reboot if a privacy zone is set at the edge of the image
- Fixed an issue where the exposure offset is not set to default value on restore defaults
- Fixed an issue where audio output cannot be enabled if the primary resolution is set to less than maximum
- Corrected an issue resulting in poor audio input quality

### Version 3.10.2.10 – Released January 26, 2017

#### Issues Fixed

- Fixed an issue where sometimes scenes with frequent analytics activity would cause the camera to crash.

### Version 3.10.2.8 – Released November 29, 2016

#### Issues fixed

- Fixed an issue where the MIB files would sometimes generate an error upon upload.
- Fixed an issue where the bandwidth limits were not enforced during Idle Scene Mode.

### Version 3.10.0.162 – Released November 10, 2016

#### New Features

- Added support for RTSP streaming of secondary stream

#### Issues fixed

- Updated the copyright notice to 2016 on the SNMP MIB files
- Corrected an issue where the wrong object type was returned for SNMP Temperature ID
- Reduced latency of analytic bounding box behind a moving classified object
- Allowing spaces to be used in naming 802.1X configuration
- Updated signed FW CRL from 2016 to 2116

### Version 3.10.0.138 – Released Sept 6, 2016

#### Issues fixed

- Fixed an issue where cameras may experience a gradual reduction in encoding framerate

### Version 3.10.0.124 – Released June 27, 2016

#### New Features

- Added support for on screen overlays for the primary stream

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### Issues fixed

- Fixed an issue where the camera would not use the Teach By Example markers
- Fixed an issue where the camera would drop frames when exiting Idle Scene Mode for high bandwidth scenes
- Fixed an issue where performing Restore to Factory Defaults would not restore the SNMP settings to default values
- Fixed an issue where ARP ping IP address settings conflicted with Link Layer Discovery Protocol result in a fixed IP conflict
- Default key frame interval restored to 30
- Default exposure under 50Hz flicker control restored to 33.3ms

### Version 3.10.0.106 – Released April 25, 2016

#### Issues fixed

- Fixed an issue where the camera would randomly reboot

### Version 3.10.0.92 – Released March 3, 2016

#### New Features

- Added support for Idle Scene Mode.
- Firmware packages are signed to verify authenticity.
- Upgraded to OpenSSL version 1.0.2d to improve security when streaming data between the ACC client and server.
- Exposure offset can be manually configured.
- The threshold for switching day/night mode is now controlled by a slider in the WebUI.
- SNMP is now configurable via WebUI to version 2c or 3. When using SNMP v3, the username and password can be configured in the WebUI.

#### Issues fixed:

- Fixed an issue where the camera would reboot every 45 days.
- Fixed an issue where the firmware upgrade would not start when the Upgrade button is clicked.
- Resolved an issue where AutoFocus would cause the camera to reboot.
- Fixed an issue where the motion detection area would exceed the image window.
- Fixed an issue where changing the motion detection sensitivity would cut off part of the detection area.
- Resolved issues with the compression formats that caused the Max Bitrate to drop to 0.
- Improved motion detection under low light conditions.
- Fixed an issue where changing the camera IP in the WebUI to static then back to DHCP cause the camera to report the IP address in the wrong part of the ONVIF message.

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- Improved WebUI status bar so that it displays on all pages.
- Fixed an issue where the saturation parameter is reported incorrectly in ACC and WebUI.

### **Version 3.8.0.8 – Released September 29, 2015**

#### **New Features**

- Fixed an issue where the cameras randomly reboot
- Improved focus feature for EFMount cameras in the WebUI
- Added a feature where the effective max bitrate is independent of image framerate
- Added a feature where the maximum aperture can be configured
- Rationalized the default key frame interval
- Increased the maximum gain to 60dB

#### **Issues fixed**

- Fixed an issue where Privacy Zone boxes were altered by manual change of exposure
- Fixed an issue where the WebUI preview would malfunction if ACC was disconnected
- Fixed an issue where outlines of objects were visible under the Privacy Zone box
- Corrected a problem where setting Privacy Zones on the WebUI would not apply
- Improved performance at low frame rates
- Fixed issues with dropping frames
- Fixed an issue where the privacy zones near the bottom of the screen would not apply properly

### **Version 3.4.2.6 – Released May 8, 2015**

#### **New Features**

- Added Self-Learning Video Analytics features to 8L-H4PRO-B, 12L-H4PRO-B and 16L-H4PRO-B
- SD Card recording defaults to record only when server connection is interrupted
- Added support for UTF-8 and UTF-32 characters in the camera name and location fields

#### **Issues fixed**

- Corrected an issue where a camera may overexpose when in manual exposure
- Fixed a web server generic cookie injection and web server generic XSS vulnerability
- Corrected the port range used for RTP / RTCP connections from 51000-63000 to 51000-55000
- Corrected an issue where the “Apply” and “Restore Buttons” in the Web UI do not appear when using Internet Explorer 11
- Corrected an issue where a Katakana name entered into the 802.1x UI may cause the camera to reboot

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### Version 3.0.0.40 – Released Dec 15, 2014

#### New Features

- Added option to retain usernames and password on firmware revert

#### Issues fixed

- Corrected an issue where a camera may overexpose when aimed at a sunrise
- Fixed issue where a user with user level permission may lock up the camera streaming by attempting a firmware upgrade
- Fixed issue where a Katakana Unicode user name would not appear in the user administration page

### Version 3.0.0.36 – Released October 31, 2014

#### New Features

- Number of privacy zones increased to 64
- Added ability to take a JPEG snapshot to an SD card when in MJPEG compression mode
- Added 802.1x port based authentication feature

#### Issues fixed

- Corrected tilt direction reversal and preset issue when used with Ulisse Maxi NetCam
- Corrected issue where a camera would be severely overexposed when paired with specific lenses such as the LEF2018SI
- Fixed issue where audio input would be garbled if the camera was connected to more than one ACC server
- Fixed issue with real-time clock where the month may not be correct for SD card recordings
- Fixed issue where an SD card may become unusable after removal from the camera
- Fixed issue where 1/7s (133ms) exposure was unavailable under 60Hz flicker control
- Fixed issue where swapping lenses while the camera is powered on may result in a failure of the camera to identify the correct lens attached.

### Version 3.0.0.26 – Released June 18, 2014

#### New Features

- In automatic exposure, increased gain range from 6dB to 54dB. In manual exposure, the gain may be set from 0dB to 54dB.
- Improved onboard storage download speeds

#### Issues fixed

- Changing from MJPEG to H.264 will no longer reset the keyframe interval to 2.

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- The orange power LED will now be on as soon as the camera powers on
- Encoding restart is faster after a frame rate change
- Privacy zone setting screen will refresh properly on Chrome browser
- Some SD cards failed to format properly
- PTZ controls in Web UI are now working properly

### **Version 3.0.0.12 – Released Apr 10, 2014**

- Initial release of firmware for the following HD H.264 Pro cameras:
  - o 16L-H4PRO-B
  - o 12L-H4PRO-B
  - o 8L-H4PRO-B