



## Evolution 180 Camera series

### Release Notes

This document describes the enhancements and major fixes for Evolution 180 Camera series firmware. 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 Oncam web site at: [www.oncamgrandeye.com](http://www.oncamgrandeye.com)

### Support

For technical issues, contact Oncam Technical Support at:

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Visit [support.oncamgrandeye.com](http://support.oncamgrandeye.com) for the latest FAQs and Downloads, and how to upgrade camera firmware.

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## 1.7.2-561 Release

(August -2019)

This release applies to all Evolution 180 cameras.

This firmware has been tested to be Profile S conformant with v18.12 (rev. 4782) of the ONVIF Device Test Tool.

### Fixes

#### IR filter controller being affected when changing the stream settings:

The IR Cut filter was not switching from Day to Night mode when adding a Vcam or changing the quality settings of the stream. Ref: 1427

#### Out of memory error:

Resolves a memory issue when streaming multiple Fixed Quality streams simultaneously. Ref: 1583

#### Issue with WS-Addressing namespace in response:

EVO-180 is incorrectly responding that the wsa5 fields are 2004 namespace structures and not 2005. Ref: 1714

#### HTTP Port Tunneling:

Resolves an issue streaming RTSP over HTTP Ref: 1735

#### Inconsistent WS-SubscriptionPolicy capability response:

The response from the EVO-180 Device and Event Service were not always returning the expected results. Ref: 1743

#### WS-Discovery does not include link local address:

Only the assigned (DHCP or Static) address is provided during discovery, the Link Local address should have been provided as well. Ref: 1798

#### Metadata SetSynchronizationPoint:

Media Service SetSynchronizationPoint failed to emit all the current property states to the metadata subscriber. Ref: 1818

#### ONVIF Conformance:

Continued improvements to ONVIF stability and conformance. Ref: 1849, 1853

#### Unable to create motion detection regions:

Resolves an issue with the configuration and operation of motion detection regions on the EVO-180. Ref: 1871

#### Motion Region Normalization Issue:

Addresses the accuracy of the motion detection regions when drawn. Ref: 1887

#### PullPointSubscription inconsistent responses:

Resolve issue with Motion Alarms using the PullPointSubscription service not responding and timing out. Ref: 1908

## Known Issues

### SD Card recording of Fisheye 1 not supported

Recording Fisheye 1 images overwrites the previous recording, when there is still space on the SD Card for more recordings. Only the Panoramic stream, Pano 1, may be recorded in this version. Ref: 1356

### Brightness & contrast settings don't work on panoramic stream via ONVIF

Brightness and Contrast settings programmed via ONVIF are not applied correctly if sent to a Panoramic stream.

Ref: 1303, 1362

### VCam stream settings in high-speed sensor mode do not show correct ranges

The range of resolutions and frame rates available for the VCam streams is incorrect when the camera is in High-speed sensor mode.

Ref: 1339

### Motion detected outside polygons after reboot

Motion detection regions operate correctly after they are configured, but the polygons are ignored after the camera is rebooted.

Ref: 1340

### ONVIF frame rate settings are 0.5 FPS lower than expected for 1 FPS and 2FPS

Very low frame rate settings applied via ONVIF can result in slightly lower rates than requested. This affects only the 1 FPS and 2 FPS settings.

Ref: 1440, 1398

### Lowering the Bit Rate after reducing Frame Rate results in low readings

Lowering the bit rate after also reducing the frame rate results in a lower frame rate than expected, until the camera is rebooted.

Ref: 1442

## 1.7.1-328 Release

(May-2018)

This release applies to all Evolution 180 cameras.

This firmware has been tested to be Profile S conformant with v17.12 of the ONVIF Device Test Tool.

### Enhancements

#### Improved Compression Performance in Fixed Quality mode

A new compression rate control algorithm has been introduced in Fixed Quality mode that reduces bandwidth in lower light conditions, without impacting the perceived image quality. The camera's default rate control mode remains CBR.

Ref: 1391, 1392, 1415, 1416

#### Enable Pano2 at low resolution

Change to camera default setting to enable a ¼ MP panoramic stream as well the default 4.5 MP panoramic stream.

Ref: 1401, 1417

### Fixes

#### Frame rates not set correctly via ONVIF

Fixed an issue where frame rate settings applied via ONVIF were not programmed correctly in the camera and could result in slightly lower rates than requested.

Ref: 1361

#### ONVIF Set Video Source Mode

Fixed an issue where changing the Video Source Mode using ONVIF command could result in a HTTP 400 Bad Request.

Ref: 1347, 1399

### Known Issues

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Ref: 1442

## 1.6.92-296 Release

(March-2018)

### Enhancements

#### Panoramic image recording to SD Card

If the primary Panoramic stream (Pano 1) is enabled, it will be the one recorded to SD Card when recording is triggered. In previous versions, only Fisheye 1 images were recorded to SD Card.

Ref: 1275

#### Day/Night control mode set to Day by default

The default day/night control mode is now set to Day mode. Thanks to the camera's low-light performance in normal conditions, image quality is better in Day mode unless IR light is present. For optimum image quality, the installer should only select modes that switch to Night mode (including Automatic) if IR light is known to be available.

Ref: 1311

### Fixes

#### SSH security

Improved security for SSH by upgrading Dropbear to version 2016.74. This enhancement removes multiple vulnerabilities discovered in the previous Dropbear version.

Ref: 1337

#### Fixed minor Day/Night switching bugs

Fixed some minor issues found in the Web page controlling the Day/Night mode.

Ref: 1312, 1313

### Known Issues

#### SD Card recording of Fisheye 1 not supported

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Ref: 1340



## 1.5.91-284 Release

(February-2018)

### Features

#### VCams - Panorama

The camera can provide up to two independent Panorama streams.

- the Panorama streams offer a range of resolutions up to 5.9 MP, @14 fps

#### Video Streams

The camera can provide up to two independent H.264 video streams (Fisheye1 and Fisheye2) plus a third MJPEG stream.

- the primary fisheye stream offers a resolution of up to 10.1MP @12 fps
- the secondary fisheye stream offers a resolution of 0.4 MP @14 fps
- the third fisheye stream mirrors the resolution of the secondary stream

#### VCams - PTZ

The camera can provide 4x independent VCams streams; all with on-board dewarping.

- the VCams video streams offer a resolution of up to 1 MP @14 fps

#### High-Speed Sensor Mode

The camera can be configured to deliver up to 30 fps @2 MP for the primary fisheye stream. This is to provide the user with much more flexibility on the camera stream output depending on his needs.

#### Multicasting

This feature is available for the primary video stream and is available through CGI commands and from the camera's configuration web page.

### Known Issues

#### SD Card Recording

The camera will record Fisheye 1 if enabled, but cannot currently record the Panorama stream.

## Contact Information

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