



# Release Notes

June 2020

## Updated Firmware (H\_7817\_Fisheye) for V8360W-12 and V8360W-6 Cameras

### General Description

Vicon has released firmware for production for the cameras listed below. The accompanying SmartManager discovery tool has not been updated for this release. It is still at version v2.3.3.15.

These cameras and firmware versions have been tested and validated with Vicon's Valerus VMS and with ViconNet V8.x.

Camera	Older Firmware	Newest Firmware
V8360W-12	H_7817_Fisheye_v1.0.5	H_7817_Fisheye_v1.1.3
V8360W-6		

### Vicon Production

The latest firmware and discovery tool are available on Vicon's website. A link is provided in the installation section of this document. Manufacturing will switch over to the new firmware for new camera production and update all existing inventory.

This is not a mandatory update. However, updating is recommended for cameras intended to work with Vicon's Valerus VMS or other ONVIF-based VMS systems. For other applications, please review the release notes to help determine if the fixes included are relevant to your environment.

Please review the upgrade instructions described at the end of this document.

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## New Features

### [Video Content Analysis](#)

This firmware adds improved Video Content Analysis (VCA) functionality to the camera. VCA functions include Intelligent Motion Detection, Intrusion Detection, Loitering, Line Cross/Counting, Crowd Detection, Object Left/Removed, Wrong Direction and Object classification. The VCA alarms can be received and processed by Vicon Valerus VMS and other VMS systems.

## Known Issues

### [Bounding Boxes in Valerus](#)

Currently, when the camera is configured to use the H.265 protocol, the VCA related bounding boxes will not show in the Valerus Client. They will be visible in the H.264 protocol. This will be resolved at a later stage.

### [Intrusion Detection](#)

When using the Intrusion Detection VCA rule, all three tick boxes, "Entered, Staying and Exited," must be selected or Valerus will not consistently receive Intrusion alarms. This will be resolved in a later version of the firmware.

### [Edge dewarping](#)

Edge dewarping is the camera's capability to dewarp the hemispheric image so that a cut-out of the image can be presented as a normal image. This is needed for VMS systems that cannot dewarp the hemispheric image themselves in the server. This version of the firmware still has very limited edge dewarping capabilities. In future releases of the firmware edge dewarping capabilities will be extended. Note that Vicon Valerus has server-side dewarping capabilities, so edge dewarping is not needed.



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## Corrected Issues

### [PHP version update](#)

The firmware is now using version 7.3.18 of the PHP HTML scripting language.

### [ActiveX version](#)

The firmware is now using version 2.3.1.92 of ActiveX in the camera web interface.

### [Multicast](#)

Some improvements have been made in the way the camera uses Multicast IGMP protocol.

### [Bounding box in Valerus](#)

Improvements have been made in the firmware to position the VCA bounding boxes in Valerus more accurately, and some issues were corrected where the bounding box would not appear.

### [Line-counters](#)

Some improvements have been implemented to read and reset line-counter values through a network API. Also, counter values will be preserved when camera reboots or is being power cycled.

### [VCA rule order](#)

A problem was fixed where the VCA rules would not work correctly when they are programmed in a certain order.

### [IEEE 802.1x](#)

The camera now also supports the IEEE 802.1x authentication mechanism for LAN devices.

### [IVMD sensitivity](#)

An issue was corrected where the sensitivity for Intelligent Video Motion Detection was too high, causing more than normal events.

### [TLS 1.0 and TLS 1.1 support](#)

Support for depreciated TLS 1.0 and 1.1 protocols have been removed. The firmware now only supports current TLS 1.2.

### [SSL certificate](#)

The expiry date for the self-signed SSL certificate was extended.

### [OSD Text overlay](#)

An issue was fixed where the OSD text overlay could not be positioned other than in the top left corner.

### [Third stream aspect ratio](#)

The camera's 3rd stream now defaults to the 4:3 aspect ratio.

### [IR always on](#)

An issue was fixed where the IR illuminators would always be on.

### [Day/Night switching](#)

An issue was fixed where the camera day/night switching would not work correctly in the 6 MP version.

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## Installing the Updated Firmware

The latest firmware is available on Vicon's website from the Software Downloads page. A link is provided below.

<http://www.vicon-security.com/software-downloads-library/vicon-camera-software/>

Download the firmware to your PC. Go to the camera's Maintenance screen:

The screenshot shows the 'Maintenance' section of the Vicon Network Fisheye Camera configuration interface. On the left, there is a sidebar with various system settings like Basic Configuration, Video & Image, Audio, Event, System (which is selected), and About. The main area is titled 'Maintenance' and contains three sections: 'Restart' (button), 'Reset' (button), 'Default' (button), 'Upgrade' (button), and 'Note'. The 'Upgrade' section has a sub-section for specifying the firmware to upgrade, which includes a 'Browse...' button and an 'Upgrade' button. A red arrow points to the 'Browse...' button.

Open the Upgrade section and use the Browse button to locate the firmware on your PC. Press the upgrade button. During the upgrade process, do not turn off power to the camera. Wait at least 5 minutes and access the camera again.

Once complete, the firmware version can be checked from the Basic Configuration screen.

The screenshot shows the 'Basic Configuration' screen of the Vicon Network Fisheye Camera. The left sidebar lists users, network, video & image, audio, date & time, and other system options. The main panel displays device information including manufacturer (VICON), model name (V8360W-12), device name (H.26X 8M Network Fisheye Camera), and the highlighted 'Firmware version : 1.1.3-Fisheye\_H\_7817\_Release'. A red arrow points to this specific text. Other details listed include MAC address, IP address, Link-Local IP address, OpenVPN IP Address, Video mode, VA License Status, and VA License Type.