VICON

April 2022

Updated Firmware for
V2020-WIR-360 and V2032-WIR-360
Multi-Sensor Cameras

General Description

Vicon has released initial firmware for production for the cameras listed below.
The accompanying Vicon IP Finder discovery tool that needs to be used with this firmware release is version 1.0.13. It can be downloaded from Vicon's website.

This camera and firmware version have been tested and validated with Vicon's Valerus VMS and with ViconNet V8.x.

Camera	Product Code	Older Firmware	Newest Firmware
V2020-WIR-360 V2032-WIR-360	10517-20 10517-25	fw_camC6P_01.00.0031	fw_camC6P_01.00.0043

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 use the new firmware for new camera production.

Some earlier pre-productions units may have older firmware. 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.

Known Issues

Smart GOP
The V20xx-WIR-360 camera has a video codec compression feature called "Smart GOP." ViconNet is unable to properly decode video with Smart GOP and will show erratic playback when this feature is enabled. When the camera is used with ViconNet, it is recommended to leave Smart GOP disabled. Valerus will work correctly with Smart GOP.

Motion Detection
The V20xx-WIR-360 camera has 4 individual cameras, and Motion Detection can be configured for each camera individually. ViconNet is unable to differentiate between Motion Alarms from each of the 4 cameras; it will report each Motion Alarm as coming from Camera 1, regardless of where the alarm was triggered. This limitation only exists in ViconNet; Valerus will detect motion from each camera individually.

New Feature

Night mode/day mode switching
Day to Night switching levels and Night to Day switching levels can now be set independently per camera, to accommodate situations where the four cameras are exposed to very different ambient light.

Fixed Issues

Password
It was possible that a "soft default" would inadvertently also reset the login credentials to default. This has been corrected.

Factory default
An issue was fixed, where a factory default would sometimes not clear some remains of ONVIF profile Q configuration.

Start of video stream
A problem was fixed where a power cycle would sometimes not start one of the 4 video streams.

False tamper alarm
A power cycle would sometimes generate a false tamper alarm. This has been corrected.

HTTPS Server (RFC 6797) vulnerability
A Nessus scan would show an HSTS Missing From HTTPS Server (RFC 6797) vulnerability. This has been corrected.

Video stream stops
Valerus would sometimes lose a video stream. Stopping and starting the stream would resolve this. This has been corrected.

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Large delta between UDP packets
An issue was fixed where UDP packets would have a large delta between the packets, causing delayed and stuttering video.

Multiple simultaneous streams
A problem was fixed, where the camera would reset when multiple simultaneous streams are requested from the camera. This is especially an issue with ViconNet, where each station gets its own stream. This has been corrected.

ONVIF stops responding
It was possible that the ONVIF server in the camera would stop responding and no event subscriptions could be added. This has been corrected.

Genetec VMS certification
Some modifications were implemented so that the camera now passes the Genetec Unit Certification Tool.

404 File not found
Sometimes a RTSP request would respond "404 File not found." This has been corrected.

Genetec VMS secondary stream
Genetec VMS sometimes was not able to retrieve a secondary stream from the camera.
This has been corrected.

UDP streams
Some improvements have been made in the UDP network protocol to accommodate multiple simultaneous streams in ViconNet.

Excessive log messages
Some excessive log messages have been removed, so that the internal log files would not overload.

Wrong ONVIF profile
An issue has been resolved where the camera would present a wrong ONVIF profile to Valerus.

Slow ONVIF response
An issue was fixed, where the camera could respond very slowly to ONVF commands from Valerus.
This has been corrected.

False input alarms
The camera could be in a state where it continuously was sending input relay alarms in ONVIF (with nothing connected). This has been corrected.

Incorrect RTSP SSRC information
Camera could set incorrect RTSP SSRC information. This has been resolved.

Wide Dynamic Range
Some finetuning took place in WDR (Wide Dynamic Range) at low and medium level.

Installing the Updated Firmware

The latest firmware, as well as the Vicon IP Finder discovery tool, are available on Vicon's website from the Software Downloads tab. 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.
Click "Choose a file" to point to the new firmware file and select "Upload":
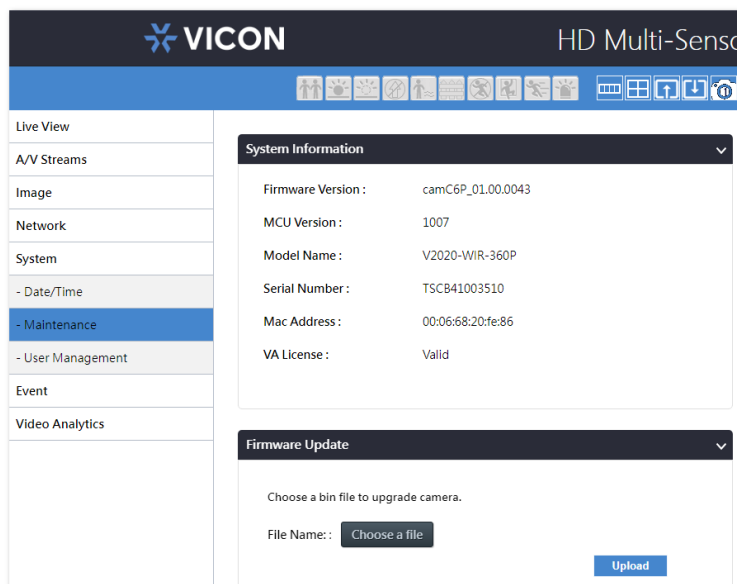
Alternatively, the Vicon IP Finder utility allows updating multiple cameras at the same time: