VICON

July 2021

Firmware Update for
V1020-WIR-360 Multi-Sensor Camera

General Description

Vicon has released updated firmware for production for the camera listed below.
The accompanying Vicon IP Finder discovery tool that needs to be used with this firmware release is version 1.0.9. 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	Older Firmware	Newest Firmware
V1020-WIR-360	fw_cam59A_01.00.0038	fw_cam59A_01.00.0048

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.

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 V1020-WIR-360 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 V1020-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.

Flip/Mirror

In this firmware, the possibility has been added to flip/mirror the individual images for all four cameras separately. However, if flip/mirror is activated, and the user saves the camera positions in a user preset, the flip/mirror state is not saved in the preset.

New Functionality

New presets

The camera now has several pre-defined presets that help move the cameras in often-used configurations (180° Wide, 180° Tele, 270° Wide, 270° Corner and 360°).

Camera layout

In a narrow browser screen (i.e., low resolution) the right-most cameras may not be visible. In this case, the camera will now present the four cameras in a 2 x 2 fashion, instead of 1 x 4, so all four cameras are still visible.

Schedule for day/night switching schedule

The camera switched from day mode to night mode based on ambient light level. A scheduler has been added that allows switching day/night moments to a specific time instead of ambient light.

Flip/Mirror

The possibility has been added to flip/mirror the individual images for all four cameras separately.

Fixed Issues

ONVIF compatibility
Some improvements have been implemented to maintain ONVIF compatibility.

Mouse behavior in analytics configuration
When drawing lines and boxes in the analytics configuration, the mouse-up event will now stop drawing the detection area. This makes it more convenient to configure.

Camera refusing connection.
It was possible, under rare circumstances, that the camera would refuse connection, and Valerus would show an error in the log files. (The remote server returned an unexpected response: (400) Bad Request.) This would especially happen in very busy networks. This has been corrected.

Bounding boxes.
An issue was fixed where analytics bounding boxes would appear before the event was triggered.

ONVIF pull point subscriptions
Some modifications have been made to improve compatibility with 3rd party VMS (Exacq). Many redundant ONVIF pull point subscriptions could occur until new subscriptions can fail with "Internal Server Error". This has been corrected.

Improve compatibility with Genetec.
An issue was resolved where the camera could not be connected to a 3rd party VMS, Genetec.

Logging out of the camera with Firefox
An issue was resolved where the user, when using Firefox web browser, could not log out of the camera once logged in. In other cases, the camera would ask for credentials twice before the user can log in. This has also been resolved.

Minimum object size.
The minimum object size for analytics must be at least 5% of the size of the image. It was possible to set the minimum object size to a value lower than 5%. This has been corrected; now the size cannot be set lower than 5%.

User preset
Some improvements were made in the way the user can create presets.

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Release Notes

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: