Vicon IQeye Camera

Firmware Release Notes

IQ76xx, IQ86xx
IQA3xx, IQD5xx
IQD6xx, IQM5xx
IQM6xx, IQR5xx

Version: V4.1/185
Date: May 7, 2015

Release Summary
This document describes the Vicon V4.1/185 IQeye camera firmware release. It documents new features and bug fixes since V4.1/025 firmware release.

New Features / Enhancements
Support has been added for the IQM6xx and IQD6xx camera families.

A new "fit window" mode is now the default display when viewing camera images in a web browser. This allows a user to see the entire image without scrolling in their browser window. The view can be changed to see the full resolution image by selecting the "Show 1:1" button in the browser window.

Corridor mode has been enabled for all image streams 1080p and smaller. The rotation mode (corridor mode) parameter can be selected for each stream individually in the setup->streams web page.

An option to force the IR LED illuminators to either always on or always off has been added to the IQM5xx and IQR5xx camera lines.

If a high speed and good quality SD card (SanDisk Extreme) is detected, the SD hardware interface on the camera will be configured to use high speed mode. Reading OID 2.40.4.1.7 will report if a high speed card has been installed.

The ability to set separate motion sensitivity thresholds for day and night scenes has been added.

The ability to configure up to 16 motion detection windows has been added.

If an SDcard is installed on a camera the sysinfo.cgi output will include information about the card.

The ability to read OID 3.14.2 to get the number of active RTSP streams has been added.

ONVIF min/max bitrates advertisements have been added.

The default image saturation value has been adjusted to give images more intense colors.

Bugs fixed

Attempting to focus an IQA3xx-A3 model camera with a MFZ lens could take an long time.

On cameras with multiple audio input sources the wrong source could be selected when the camera booted.

Motion exclude windows were not operating correctly on the IQ765N and IQ865N models.

Requesting a stream using the default ONVIF profile resulted in an 11 Mbit bit rate.

The default ONVIF session timeout was not long enough.

Requesting JPEG streams via the ONVIF interface could deliver corrupted or truncated images when the network interface was slow or overloaded.

The range of acceptable VBR rates above and below the user specified VBR value was too large.

In very bright environments the image brightness could oscillate.

The gain algorithm on 5MP cameras was only using part of the image to get brightness statistics.

Images from 5MP dome cameras (IQD55, IQM55, IQM65) were too noisy in low light environments.

Images from cameras with WDR mode enabled were using too high a target exposure value resulting in images that were slightly washed out.

When RTSP streams were being delivered to different clients on different speed networks the streams on the slower connections could delay the streams on the faster connections.

A control for "Anti-banding" strength has been added. This allows a user to minimize the amount of banding that can occur when WDR has been enabled in environments with mixed natural and fluorescent lighting.

When using 1 Volt RMS audio signals the "low" gain setting was still applying enough amplification to cause distortion.

An H.264 stream requested immediately after factory resetting a 5MP camera would have an invalid sprop description.

Cameras with WDR sensors configured with WDR in day mode and non-WDR in night mode could end up with dark day mode images.

Some cameras using the B5 lens could deliver images with too much yellow tint.

The 5 megapixel Alliance-MX camera gain could oscillate under very bright outdoor light settings.

Known issues

Selecting the lightgrabber "4X" setting on the IQD5xx, IQM5xx and IQR5xx families of cameras could cause the camera brightness algorithm to get stuck and result in a washed out image. The "4X" setting has been disabled.

IQrecorder functionality is no longer supported.

The ability to select 60 frames per second on one megapixel WDR cameras with has been removed.

When using Exacq Edge (or any Edge client) be sure to configure a network accessible NTP time server for IQD5xx and IQM5xx cameras as they do not have a real-time clock. If the Exacq Edge client needs to be used in an environment that does not have an accessible NTP server, please use IQeye cameras from the IQD6xx, IQM6xx, IQ76xx, IQA3xx and IQR5xx families as these models include a battery backed up real-time clock.

In certain network environments the analog video output of the IQD6/IQM6 will not work unless the camera has just been factory reset.