

IQinVision

Firmware Release Note History

Product: IQAxx (Alliance Dome), IQ7xx & IQ8xx (Sentinel) Series

Version: 3.1/2

Date: August 2011

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Release Summary

This document describes the IQinVision V3.1/2 camera software release documenting new features and bug fixes since V3.1/1 firmware release.

******* VERY IMPORTANT NOTE FOR EXISTING IQrecorder USERS: *******

Before installing firmware Version V3.0/2 you will want to back-up your recorded images and erase them from your FTP server, or on camera SD or CF media. IQrecorder II will not delete the oldest images properly. This will cause the storage limits to be exceeded, and could cause your disk to fill up!

IQrecorder II also cannot playback images that were created by the older versions of IQrecorder.

******* VERY IMPORTANT NOTE FOR EXISTING IQrecorder USERS: *******

For internal camera recording to CF or SD media to work properly after upgrading to IQrecorder II (firmware version 3.0/2) the following must be performed as part of the firmware upgrade:

NOTE: The following steps will not need to be performed when using external storage, or if the camera was never used with IQrecorder I.

- 1. Go to the IQrecorder settings tab.*
- 2. Stop recording*
- 3. Back up your recorded images if needed.*
- 4. Click the format button.*
- 5. At the “record to” drop down select “External”.*
- 6. Then at the “record to” drop down select “Camera internal”.*
- 7. Click on the “Enable Recording” button.*

******* IMPORTANT NOTE FOR EXISTING ALLIANCE DOME USERS: *******

After loading firmware Version 3.0/2 you will need to change your electronic shutter settings to “optimize speed”. The electronic shutter settings is available on the ‘setup page’ under the ‘advanced image settings’ tab.

Version: V3.1/2

Date: 08/2011

New Features / Enhancements:

1. OIDs have been added to force NTP resynchronization and set NTP update interval.

Fixes:

1. Camera not synchronizing to NTP within milliseconds has been fixed.
2. Camera not rebooting after a uploading a new license file has been fixed.
3. Alliance (IQA2x Series) H.264 SEIL missing payload length has been fixed.

Version: V3.1/1

Date: 04/2011

New Features / Enhancements:

1. 5 Megapixel camera models have improved image performance as a result of timing change.
2. Relay and IQaccess button now support quotes and other non alpha numeric characters.

Fixes:

1. Alliance Dome (IQA2x Series) not having audio enable/disable settings for H.264 stream has been fixed.
 2. Alliance, Sentinel, and IQ75x Day / Night camera models not having start/end fields when "timer" mode was selected has been fixed.
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Version: V3.0/9

Date: 12/2010

New Features / Enhancements:

1. Enhanced telemetry error reporting.
2. AWB was enhanced allowing cameras to white balance on larger scene variations.
3. Auto exposure was enhanced.
4. OID (1.17.2.15 user SEI was added, and is set as 0/1 or enabled/disabled.
5. Crontab, IQrecorder schedule settings, IQDay.cfg, and IQNight.cfg files are now saved as a configuration file.
6. OIDs now support upper and lower case values.
7. Viasys web page has been updated to work with new web page structure.

Fixes:

1. Missing settings when saving a configuration file has been fixed.
 2. Changing the language could cause the webpage to stop responding without a refresh has been fixed.
 3. AWB target values not being read correctly by NVRs or OIDs have been fixed.
 4. Images that display yellow when the AWB mode is set as locked have been fixed.
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Version: V3.0/8

Date: 08/2010

New Features / Enhancements:

1. New AWB mode. This mode is factory default for new camera, but older cameras updated with new firmware will retain the original AWB mode.
2. DHCP is enabled by default.

3. IQrecorder events are grouped together when the frequency of events increases.
When the frequency of events decreases IQrecorder switches back to one event per file.
4. Lightgrabber and Gain Style settings are moved to the advanced image settings tab.
5. IQaccess schedule feature enhanced.

Fixes:

1. IQrecorder enhanced to work with Java VM's (1.6.0.18) or later due to a change in Java VM.
 2. IQrecorder progress bar continues during playback.
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Version: V3.0/7

Date: 04/2010

New Features / Enhancements:

1. Support for new Day/Night servo on 7xx and 8xx camera models.
2. New color correction for new Day/Night IR filters on 7xx and 8xx camera models.
3. Enhanced cold weather performance by increased clock drive strength.
4. Enhanced cold weather performance by adjusting clock timing.

Fixes:

1. Fixed multiple-stream now.motiondata bug.
 2. Increased vector length for SendFile.
 3. Heater enable/disable hysteresis fixed.
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Version: V3.0/6

Date: 01/2010

New Features / Enhancements:

1. Default target exposure was changed from 120Hz to 60Hz on Alliance dome cameras for improved office-lighting conditions.
2. Telemetry data request added.
3. Version check was added so cameras with specific flash cannot be loaded with incorrect firmware.

Fixes:

1. Trigger no longer gives duplicate images.
 2. Saturation values are redisplayed after entering to show what is actually configured.
 3. Saturation values entered after a night-to-day on Day/Night camera models now work.
 4. Improve performance with improved image handling.
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Version: V3.0/4

Date: 11/2009

New Features / Enhancements:

1. Alliance Day/Night Dome cameras have new color correction matrix.
2. Chinese language translation updated.
3. Support for a new flash device.

Fixes:

1. IQrecorder disabled or changes to the recording interval now take effect immediately.
 2. Webpage javascript errors have been corrected.
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Version: 3.0/3

Date: 10/2009

New Features / Enhancements:

1. Auto white balance tab added to windows settings in the GUI.
2. Auto white balance grid.
3. Improved factory reset, requires holding the reset button for 10-seconds.
4. Image flip setting changes immediately reflected in vcam and IQcameo windows.
5. Firmware upload speed is faster.
6. RAM increased by moving ROM disk to flash.
7. TCP fast retransmission supported.
8. 5 megapixel sensor clocking was changed to use the sensor PLL.
9. Maximum files per local disk directory have been increased.
10. IQrecorder II filenames shortened to reduce disk usage.
11. Timestamp synchronization now accurate to the milliseconds.
12. JPEG comments are not inserted twice on triggered images.
13. LED blink patterns changed to be consistent with the new format.

Fixes:

1. IQrecorder II works with SNAP appliance server.
 2. IQrecorder II playback does not stop when streaming images from the camera.
 3. IQrecorder II playback does not freeze when receiving large numbers of trigger events.
 4. IQrecorder II can now handle “/” in the recording root name (e.g. “/images/”).
 5. IQrecorder II no longer goes to the start of the hour when finding an image by a time search.
 6. Individual JPEG request taking to long has been fixed.
 7. RTSP header negation has been fixed.
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Version: 3.0/2

Date: 06/2009

New Features / Enhancements:

1. Support added for IQaccess functionality.
2. IQrecorder II supports letterboxing of odd-aspect ratio video.
3. System filenames include code version.

Fixes:

1. Fixed camera lock up from too many http connections.
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Version: 3.0/1

New Features / Enhancements:

1. Support for IQrecorder II
2. Faster camera recording by recording multiple images into a single file.

Fixes:

1. LIGHTGRABBER now saves and uses configured settings.
 2. Corrected day / night operation when moving from forcenight to auto mode.
 3. Correct live page zoom operation when zooming back in.
 4. Alliance Dome – H.264 enabled cameras correctly initialize the hardware when the SD card has been inserted.
 5. Use hardcoded IQrecorder name for directory when using internal recording.
 6. Small amount of free space is kept on the internal media cards to avoid FAT32 allocation issues.
 7. Requested frame rates lower than the actual imager frame rate is delivered.
 8. Overlay text update immediately when it is changed by OIDs or telnet commands.
 9. RTSP audio-only stream closing after 2-minutes has been fixed.
 10. IQ7x% and IQ8x5 cameras have the variable imager clock functionality restored.
 11. SD and CF card accesses on the camera is now fixed.
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Version: V2.9/7

New Features / Enhancements:

1. None

Fixes:

1. A timing window with certain FTP servers would make IQrecorder stop triggering when the playback viewer was activated.
2. The IQfocus port was being shut down if a trigger occurred. Now runs for the timeout period.
3. now.mmap streams are working (motion bitmap pbm files).

Version: V2.9/6

New Features / Enhancements:

1. RTSP H.264 URI (Alliance only) - RTSP H.264 URI can contain the modifier “now.mp4?mm=a” to request an audio only ACC stream from the camera, or “now.mp4?mm=v” to request a video only H.264 stream from the camera.
2. IQfocus timeout on the Sentinel IQ8xx series cameras is now 30 minutes.
3. Demo licenses are now valid for 90-days.

4. Frame rate for VGA / QVGA / QQVGA has been improved to the level seen on firmware Version V2.8/6.

5. Global Reset Strobe Support - Implemented on the IQ705, IQ755, IQ805, IQ855, IQA13S, IQA15S, IQA23S, and IQA25s, it allows the camera to trigger a strobe to stop the motion of fast moving objects at night via a trigger input connected to the camera.

Fixes:

1. Cameo & Virtual camera windows that intersect the crop window are now clipped to the crop window and letterboxed (if necessary) instead of showing pixels outside the image.
2. Cameo & Virtual camera windows can handle flip / rotate modes and image cropping correctly.
3. Glitches associated with Cameo & Virtual camera windows are corrected.
4. Overlay issued now resolved.

Version: V2.9/5

New Features / Enhancements:

1. None

Fixes:

1. H.264 audio input issue corrected.

Version: V2.9/4

New Features / Enhancements:

1. Analog output disabled when an H.264 stream is requested.
2. Crop window changes take effect immediately on H.264 cameras.

Fixes:

1. now.motiondata works again
 2. Analog output has more stable operation.
 3. H.264 encoding works if the 50 Hz analog monitor output is selected.
 4. Down sample by 8 works on 3 Megapixel Alliance cameras
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Version: V2.9/3**New Features / Enhancements:**

1. Support for 3 & 5 Megapixel Alliance Domes
2. Imaging enhancements for Alliance cameras
3. Improved contrast in low-light applications.
4. Sharpness setting changed to 'medium' to reduce noise in low-contrast applications.
5. Factory default value for 'electronic shutter' is now 'optimize for speed'.

Fixes:

1. None
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Version: V2.9/2**New Features / Enhancements:**

1. H.264 Support - The Alliance Dome Series of cameras now support an optional factory installed H.264 encoder.
2. vSMAC Support - Initial implementation of IQinVision vSMAC which supports the following functionality:
3. Cameo page which allows a single camera to display multiple views on a single webpage with different frame rates. Used too zoom in on areas of interest maintaining a full field of view image. It reduces the bandwidth needed for live viewing of high resolution images.
4. Virtual cameras which allows IQ7xx, IQ8xx, IQAxx series megapixel cameras to output multiple VGA camera streams at the same time.
5. Auto White Balance Improvements - Now support Gray World to produce better results in outdoor scenes.