

# IQinVision

Firmware Release Note History

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

Version: 3.0/7

Date: April 2010

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## Release Summary

This document describes the IQinVision V3.0/7 camera software release documenting new features and bug fixes since V3.0/6 firmware release.

V3.0/7 provides support for the IQAxx (Alliance Dome, IQ7xx, and IQ8xx (Sentinel) Series hardware platforms.

**\*\*\*\*\* 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.*

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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.

**Bug 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.

**Bug 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.

**Bug 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.

**Bug Fixes:**

1. IQrecorder II works with SNAP appliance server.
  2. IQrecorder II playback does not stop when steaming 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.

**Bug 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.

**Bug 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

**Bug 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).
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**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.

**Bug 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.
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**Version:** V2.9/5

**New Features / Enhancements:**

1. None

**Bug Fixes:**

1. H.264 audio input issue corrected.
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**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.

**Bug 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'.

**Bug 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.