

IQinVision

Software Release Notes
Version V2.8/6
March 13, 2008

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Release Summary

This document describes the IQinVision V2.8/6 camera software release.

These release notes will document new features added and problems corrected since the V2.8/2 software release. V2.8/6 provides support for the IQeye30x, IQeye5xx, IQeye5xxDV, IQeye7xx and IQeye8xx hardware platforms.

New Features

The following is a summary of all significant enhancements since software release V2.8/2. Please see the IQinVision Reference Manual, available on the IQeye web site at <http://www.iqeye.com/manuals.html> for detailed information about new features and enhancements.

Image Enhancements

All IQeye7xx and IQeye8xx cameras now have their default analog video output set to the IQfocus helper. For the IQeye7xx series, the IQfocus helper will stop and normal analog video output will resume 5 minutes after the camera is powered on. For the IQeye8xx series, the IQfocus feature and all analog video output will be disabled 5 minutes after the camera is powered on. While in IQfocus helper mode, pressing the reset button will switch between No Zoom, 1X Zoomed Image, and a Centered 2X Zoomed Image.

IQinVision is constantly striving to improve its image quality to even higher standards. V2.8/6 incorporates several improvements to image quality, including:

- Improved color accuracy through the use of the latest color correction matrices
- Dramatically improved color depth and vividness using new saturation logic
- Increased dynamic range achieved by enhancing default gamma values

30-Day IQrecorder Demo License

All new IQeye 5xx, 7xx and 8xx cameras shipped from IQinVision have IQrecorder enabled by default for a 30-day demo license. After 30-days of use, the IQrecorder demo automatically disables until the demo license is renewed by IQinVision or a full-license is purchased.

MTU Values

A static global MTU value can be assigned to the camera. This allows specifying a smaller Ethernet MTU so that packets will not be fragmented across a VPN connection. Use the command:

```
DEFINE IP ETHERNET MTU [nnn]
```

The value nnn must be an even number between 40 and 1500. Note that the MTU specified does not include the size of the Ethernet header so packets which can be up to 14 bytes larger than the amount specified.

Default Time Zone

The factory default time zone is now Greenwich Mean Time. (GMT)

Password Character Length

Privileged and access passwords can now be up to 32 characters long.

IQrecorder Improvements

The IQrecorder time lapse value can be specified either in seconds or as a hh:mm:ss value.

IQrecorder FTP server information has been enhanced to allow 63 characters for the FTP username and 32 characters for the password.

Dynamic Print Variable

The dynamic print variable \$MSE (milliseconds since epoch) has been added. This dynamic print variable will be replaced by the actual time that an image was acquired. It can be used wherever a \$DP variable is applicable, i.e. for creating FTP filenames, as image overlays, etc.

Motion Data Without Video

Two new streams have been added to allow a host based system to get motion data without also getting actual images. Please see the IQinVision API/SDK Manual on the web site for more details.

Resolved Problems

- When the IQrecorder playback applet was unable to connect to the local FTP server it would generate an error message before attempting to connect to the NAT router, if specified.
- IQrecorder setup and playback errors were displayed as hexadecimal codes rather than as plain text.
- When loading new code from a web interface the browser would timeout before the camera had successfully rebooted.
- Using authenticated SMTP login information for sending triggers was not working correctly.
- When IQnightlight minimum exposure or maximum gain percentages are changed force the autogain algorithm to re-evaluate the scene immediately.
- Cameras with five megapixel sensors could display colors incorrectly. This would normally show up as red and green being inverted, or as very flat colors.
- IQ5xx cameras now correctly support maximum frame rate limits less than five fps.
- On IQeye7xx and IQeye510 cameras when negotiating physical layer capabilities with certain switches the Ethernet connection would not come up.
- When reloading firmware using the security settings web page, the new firmware could be corrupted if images were being served to a host system and if the firmware update was being performed across a slow network link.
- When using the on-camera syslog memory buffer to view FTP transaction information not all logging would show up in the buffer.

Known Problems

This release has no known problems.