Quasar Oct'13 Enhancements Release Notes

Firmware Version dt20131021NSA

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1. Introduction

The intention of this version release is to enhance the user experience and to improve the features and functionality of the products.

Affected Products:

Camera type	720p models	1080p models
Fixed camera	CF-3211-00	CF-4221-00
Mini dome camera	CM-3211-00 CM-3211-10 CM-3211-01 CM-3211-11 CM-3211-10-I CM-3211-11-I	CM-4221-00 CM-4221-10 CM-4221-01 CM-4221-11 CM-4221-10-I CM-4221-11-I CM-4321-00 CM-4321-30
PTZ camera	CP-3211-180 CP-3211-181	CP-4221-200 CP-4221-201

2. New Features and improvements

Image quality

- Improved image quality in low bit rates due to improved noise reduction

PTZ Digital Zoom

- PTZ Digital zoom function is now supported on all Quasar PTZ cameras (CP models)

Audio Support

- Audio support on model CM-4321-xx
- Synchronized audio and video is now supported across the Quasar series

Storage on the Edge support (SOE)

- Support for SDXC 64 GB memory card
- Select multiple SD video files to download using the web UI
- Improved recorded video files naming when saving video from the SD card
  Example: R_20130702_xxxx.AVI
- Tagging of recorded video files with motion and event information is now supported

PTZ coordinates OSD

- On screen PTZ coordinates are now supported

PTZ Tilt enhancement

- Improved PTZ tilt mechanism to minimize the risk of camera drifts caused by strong vibrations

Video stream reversal

- Support of reverse streaming so that stream #2 (recorded) can have a higher resolution than stream #1 (live)

Recording scheduling

- Custom recording schedules are supported using the web UI. Supported recording options include: continuous, motion recording, record upon network failure, and record upon trigger

Additional supported profiles

- Support of H.264 high and baseline profiles

3. Version compatibility

Quasar version dt20131021NSA is supported with the following software versions:

- Latitude 6.2.0.25 + LU 6.3.0.2522
- Latitude 6.3.0.25 + CP1
- DNA 2.0.2.9

4. Fixed Bugs

1) In PTZ models with a previous hardware (FPGA) revision, in rare occurrences the top half of the video was on the bottom and the bottom part was on the top.
2) A Quasar unit that was set with DHCP enabled became inaccessible when it was connected to a network without a DHCP server
3) Daylight saving time did not operate properly
4) Admin password had no indication of how many character can be set
5) Scheduled recording did not start according to configuration
6) Setting the Alarm Switch to *Off* or unchecking *Enable alarm output* did not disable the Alarm output in the System > Application screen of the web UI
7) The name of the file to be recorded by the SD card was not set as configured
8) FTP setting could not accept a valid DNS address
9) Refreshing the Storage Management screen in the web UI did not refresh the recording list or the device information.
10) When the Recording Schedule was set to *Always*, but SD card was not inserted in the unit, there was no message that there was no SD card and not recording
11) When the PTZ > Home > Type setting was *Pattern*, the '*Line*' dropdown menu showed 8 patterns, but only four could be configured
12) The Sort button in the Storage Management screen did not function properly.
13) In the Security > User > Manage User screen, the UI enabled removing a user password, but the previous password was retained.
14) An email was not sent when the camera was set with a static IP address
15) SNMP was not supported
16) Default fixed shutter of CM-4321 is now changed to 1/50 or 1/60 (previously 1/150)

5. Limitations

1) PTZ camera, when operating with a high zoom factor with bright light conditions, the camera produces wavy video.
2) PTZ camera, optical zoom is saved by pattern, while digital zoom is not saved
3) OSD in a PTZ camera is not displayed during digital zoom
4) PTZ camera, speed by zoom is not active during digital zoom
5) The camera requires that all video and audio encoders must be configured with the same connection type of either Multicast or Unicast
6) Audio out (speakers) works only when the video is set to Unicast
7) On Minidome cameras, the second stream is limited to bitrate of 2048 Kbit/s.
8) Cameras in CIF resolution cannot rotate the image 90 degrees
9) The image is stretched in the web viewer when rotating the video by 90° or 270°
10) Feb.29 is not available in the daylight saving time selection
11) Email attachment is not supported for H.264 streams, only for MJPEG streams

6. Known issues

- In some rare occasions, PTZ camera upgrades to the new fw version (**dt20131021NSA)** will result with frame rate degradation. Partial factory default resolves that issue

7. Upgrade Procedure (Important)

- The upgrade procedure can be performed **ONLY** with DNA 2.0.2.9 or higher. Do **NOT** use the camera's web interface to perform the firmware upgrade.
- DNA performs a complex procedure that takes more time than previous firmware upgrades. It may take up to 20 minutes.
- It's recommended to set cameras streams bitrate to less than 2Mbps to reduce upgrade time.
- **This upgrade is not reversible.** Downgrading back to previous GA firmware requires a special procedure that can be done only in the DVTEL factory.
- DNA preserves most of the configuration parameters. The unsaved parameters are: minimum shutter speed setting, HTTPS certificate
  Additional parameters may not be preserved on PTZ cameras (CP-XXXX models):
  MJPEG frame rate, Home function>line, Privacy Mask>Switch
- In some rare cases, the upgrade may fail when DNA tries to upgrade a Quasar PTZ camera with previous firmware version. DNA displays a message that upgrade failed and that a manual full configuration restore is required. After performing a factory default, use the DNA to start upgrade process again. Note that configuration parameters will be lost.

How to perform the firmware upgrade:

1) If the camera is connected to Latitude VMS, STOP the Latitude services (important).
2) Run DNA and perform the firmware upgrade according to instructions in the DNA User Manual. When upgrading PTZ camera, general firmware and PTZ head firmware must be upgraded at the same upgrade.
3) If the camera was connected to the Latitude VMS, start services.

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