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Release Notes

Quasar Gen II

Apr'15 Enhancements

Firmware Version
dt20150426NSZ

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Ver. A

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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 Models:

Camera type	Quad HD	Ultra HD
Bullet cameras	CB-6204-11-I	CB-6208-11-I
	CB-6204-21-I	CB-6208-21-I
Mini-dome cameras	CM-6204-11-I	CM-6208-11-I
	CM-6204-21-I	CM-6208-21-I

1.1 Version Details

Full version details:

- Camera firmware version dt20150426NSZ

1.2 Firmware and Software Update Location

The firmware and software updates are available from <http://www.dvtel.com/services-support/firmware-software/> and support@dvtel.com

2. Version Compatibility

The firmware is supported with the following software versions:

Product Name	Description
Latitude 6.3 CP1 LU42	Latitude 6.3 Camera Pack 1 with update 6.3.0.4142 and above <i>Update 6.3.0.4158 or higher is recommended</i>
United VMS 6.4	Latitude/Horizon/Meridian 6.4 with update 6.4.0.6813 and above <i>Update 6.4.0.6822 or higher is required for new VMS functions</i>
DNA 2.0.4.8	DVTEL Network Assistant (DNA) version 2.0.4.8 and above

**Note:**

Support for Horizon and Meridian available in version 6.4 and above.

3. New Features and Improvements

3.1 90°/270° Rotate

The image can now be rotated 90° and 270° (9:16 portrait view, sometimes referred to as Corridor/Hallway Mode/Format), providing better coverage for long narrow scenes.

Note: On 4K models, the frame rate maximum is 15FPS when in this mode.

3.2 Adaptive Streaming Enhancement

Adaptive Streaming has been enhanced so that deployments requiring higher than 12/15FPS can also benefit from this technology.

Model Series	Configured Frame Rate	Resolutions in Play
Ultra HD	26-30	4K
	16-25	4K + D1
	1-15	4K + 1080p + 720p + D1
Quad HD	26-30	1440p
	16-30	1440p + D1
	1-15	1440p + 720p + D1

3.3 Color and 2D Noise Reduction

The new Color and 2D Noise Reduction filters provide enhanced low light performance by retaining brightness and color in low light conditions while reducing the noise in the image.

3.4 General Improvements

- a. Out of box experience
 - WDR function is now set to Mid by default
 - CBR is now the default rate control mode
 - Tampering detection is now enabled by default
 - IR Compensation is now enabled by default
 - Motion and Tampering Metadata is now enabled by default
 - Motion Detection level is now 40 by default
 - Bitrate defaults now correspond to resolution defaults
- b. WDR performance enhancements for QHD models
- c. Photographic lens enhancement for 3-8mm models

3.5 Bug Fixes

- a. Rotation reverted to 0° after firmware upgrade
- b. ROI Encoding wasn't functioning in some configurations
- c. Brightness variations when bit rate settings were changed
- d. Auto focus wasn't functional in manual exposure mode
- e. WDR compositing gradually changes with static scene
- f. Tampering state inverted if camera was rebooted during tampered state
- g. Internet Explorer would occasionally crash while navigated web interface
- h. Image quality of 1080p was degraded when set as the top resolution
- i. QHD models exhibited halo effect around high contrast areas
- j. Resolution transition was delayed when performing several configuration changes
- k. MTU changes to 1490 after reboot

3.6 Limitations

- a. Analog output is supported in single and dual stream modes
- b. Auto focus is initiated when Picture Profile settings are saved in Admin Center

4. Upgrade Procedure

The firmware can be updated by using the camera's web interface or by using the DVTEL Network Assistant (DNA) tool.

4.1 Upgrading the Camera through the Web Interface

To upgrade the camera firmware

1. Select the **System** tab on the navigation bar.
2. Select the **Maintenance > Software Upgrade** tab on the sidebar.
3. Follow the steps indicated on the screen to perform the upgrade.
4. In Step 2, change the option to `uImage_userland.img`
5. Click **Upgrade** button

Note: When upgrade is complete, it is recommended to perform a **Partial Restore** to implement the new defaults (navigate to **System > Maintenance > Factory Default**)

4.2 Upgrading the Camera through DNA

To upgrade the camera firmware

1. Upon discovery of the Quasar Gen II unit(s), select the relevant unit(s) from the Discovery list.
2. Click the **Firmware** icon on the navigation bar.
3. Select the camera firmware file from the relevant fields on DNA.
4. Click the **Upgrade** button.

Note: When upgrade is complete, it is recommended to perform a **Partial Restore** to implement the new defaults (select unit then click **Admin > Partial Factory Defaults**)

For further details, refer to the *DNA 2.0 User Manual*.

4.3 Upgrading DVPlayer if DVPlayer versions 1.18.10 and/or 1.18.12 are present

To upgrade the DVPlayer

1. Go to Control Panel > Programs and Features and locate DVPlayer in the list
2. If under Version it states 1.18.10 or 1.18.12, highlight DVPlayer in the list and click Uninstall. Follow the prompts to uninstall the previous version(s). Do this for both if applicable.
3. After the older versions are uninstalled, the next time the camera's webpage is accessed, you will be prompted to install the newest version of DVPlayer. This version is backwards compatible with older cameras and firmware.

5. Disclaimer

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Appendix

A.1. Jan'15 Enhancements (dt20150116NSZ)

1. New Model Support

4K with 9-22mm lens

- CM-6208-21-I
- CB-6208-21-I

Quad HD 3-8mm lens

- CM-6204-11-I
- CB-6204-11-I

Quad HD 7-22mm lens

- CM-6204-21-I
- CB-6204-21-I

2. Adaptive Streaming

United VMS 6.4 with LU 6.4.0.6808 introduces Adaptive Streaming, a technology which maximizes system efficiencies and viewing experience by displaying the most suitable stream for any display surface.

3. Auto P-Iris

Automatic mechanism for P-Iris control.

4. Region of Interest Encoding

Allows user to define area where quality should be higher or lower than the general scene, allocating available bandwidth resources accordingly.

5. Bug Fixes

- a. Adjusted the available range of F stop to maintain image quality and prevent hunting
- b. Retain rotate type after partial factory default
- c. Addressed issue where image becomes noticeably brighter and bit-rate rises significantly

A.2. Nov'14 Enhancements (dt20141114NSZ)

1. Auto P-Iris

Mechanism to automatically adjust the P-Iris during changing scene conditions

2. API for TV system change

User can now control TV system from software

- a. DNA support from version 2.0.4.4
- b. Latitude/Horizon/Meridian support from version 6.4

3. General Improvements

- a. Full factory default restores the factory P-Iris setting
- b. Partial factory default maintains users P-Iris setting
- c. Default QP values for CBR mode
- d. Set \Program Files (x86)\ as DVPlayer installation path
- e. Audio default changed to Full Duplex
- f. Prepare webUI for ROI Encoding feature

4. Bug Fixes

- a. Manual P-Iris adjustment isn't functioning after factory default
- b. Frame rate cannot be set when the shutter is over 1/30 or 1/25
- c. Shutter is not set properly during resolution setup in some conditions (i.e. changing from 4K@30FPS to 1080p@15FPS may result in 20FPS)
- d. Setting resolution and frame rate in PAL mode rejected in some flows
- e. IOI HD appears in scopes

Contacting DVTEL

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For product-related documents and information, visit <http://www.dvtel.com/>. For assistance, email us at support@dvitel.com or phone 1-888-DVTEL77.