



Quasar Gen III CP-6302

Firmware Release Notes

Firmware Version 20180124

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Document History

Version	Date	Comment
1	February 21, 2018	Initial FLIR release

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1 Version Content

This release supports the key features listed in section 3 for the Quasar Gen III CP-6302 range of cameras: CP-6302-31-I, CP-6302-31-P, and CP-6302-30-R. In addition to documenting the [Key Features](#), these release notes cover [Supported Products and Platforms](#), [Limitations and Known Issues](#), [Firmware Upgrade Procedure](#), and [United VMS Compatibility](#).

1.1 Version Details

Full version details: camera firmware version 20180124, Pan MCU PV2R-C011N, Tilt MCU TV2R-C011N. The full version information is displayed on the camera's web UI, on the **Software Version** page, under the **Settings > System > Maintenance** section.

SOFTWARE VERSION	
The CPU version is	fs20180124NRS
The Pan MCU version is	PV2R-C011N
The Tilt MCU version is	TV2R-C011N
The Zoom MCU version is	T2-L34-I0-170718-01

1.2 Firmware Version Location

The firmware and software updates are available by email from product.enterprise.support@flir.com.



2 Supported Products and Platforms

This version is applicable to the following products:

Product Name	Description
CP-6302-31-I	Quasar Gen III CP-6302-31-I is an indoor/outdoor IR Pan/Tilt/Zoom (PTZ) camera that provides real-time video with high-definition quality at Full HD 1080p.
CP-6302-31-P	Quasar Gen III CP-6302-31-P is an indoor/outdoor Pan/Tilt/Zoom (PTZ) camera that provides real-time video with high-definition quality at Full HD 1080p.
CP-6302-30-R	Quasar Gen III CP-6302-30-R is an indoor Pan/Tilt/Zoom (PTZ) camera that provides real-time video with high-definition quality at Full HD 1080p.
United VMS 7.0 LU 5783 and higher	Latitude/Horizon/Meridian update 7.0.0.5783 and above.
United VMS 8.0 LU 6105 and higher	Latitude/Horizon/Meridian update 8.0.0.6105 and above.
DNA 2.1.3.15 or higher	Utility required for initial discovery of the camera on networks without a DHCP server. Download latest version of DNA from here . Download the DNA User Manual from here .



Note:

1. To discover the CP-6302 cameras range in Latitude/Horizon/Meridian 8.0, select the *FLIR* option for the Unit Type in the Admin Center discovery. In UVMS 7.0, select the *Quasar Gen II* Unit Type.
2. The camera's web UI is supported on Microsoft Internet Explorer 10 and above (32-bit version).



3 Key Features

The CP-6302 camera range includes indoor and indoor/outdoor Pan/Tilt/Zoom (PTZ) cameras that provides real-time video with high-definition quality at Full HD 1080p.

3.1 Quad-Streaming IP Video

The CP-6302 cameras supports up to four streams simultaneously with H.265, H.264 or MJPEG compression.

3.2 Audio-In/Out, Alarm-In/Out, and SD Card Drive

The camera includes one audio-in, one audio-out, four alarm-in, and two alarm-out connections. The SD card drive supports a microSDXC card up to 128GB (card not included), enabling storage of recordings and snapshots.

3.3 Improved Cybersecurity Support on UVMS 8.0

The user now has the capability to generate self-signed certificates on the camera via Admin Center as well as put it on secure mode.

3.4 Improved Control of the Camera through an RS-485 connection

The user can now create presets and has an improved PTZ control experience when the camera is connected to an encoder via RS-485.

3.5 Unified Users Management

By default, the camera has two administrator-level users:

1. 'Admin', with the default password '1234'.
2. 'admin', with the default password 'admin'.

3.6 SD Card Error Notification ONVIF Events

The camera supports ONVIF events in cases where the SD card is mounted incorrectly or is on a "read only" setting.



4 Limitations and Known Issues

BUG ID	SUMMARY	COMMENTS
45013	UVMS > Latitude turns digital WDR off when CP-6032 is attached to the system.	Turn digital WDR on in AdminCenter.
NA	Encoding priority does not provide consistent bit rate performance on values 8-10.	
44976	UVMS > Latitude AdminCenter > Only the first two streams are configurable after changing the camera's TV format.	Change the camera's TV format in the UI to the desired setting before attaching it to Latitude.
NA	Audio is not supported when the camera is set to Multicast.	Set the camera to Unicast.
45094	UVMS > On a PAL system, when the camera is set on PAL 50 fps mode, the user is unable to set a frame rate higher than 25 fps.	
45516	UVMS > The camera occasionally stops responding to PTZ control commands for a few seconds when it's set on Secure connection	Use unsecure mode.
NA	UVMS > The user has to re-discover the camera in AdminCenter if the TV System was changed on the web UI.	
NA	When the frequency of a light source around the camera (including light reflected off surfaces) is closely synced with the Shutter WDR operation, a pixelization effect may appear. It's advised in these cases to use non-shutter WDR modes (such as NTSC 60).	To change the camera's mode, on the web UI go to Settings > Camera > Misc. and select the appropriate TV system (NTSC 60/PAL 50). The camera will reboot. If the camera is attached to a VMS, rediscover the camera after it's initialized.
45702	UVMS> When the user replaces CP-4221 or other older cameras with the CP-6302, the previous picture or video settings may be applied to the new cameras.	Check the Picture and Video settings tabs to confirm the correct values. The default values are recommended: Saturation – 35 Contrast – 35 Brightness – 50 Sharpness - 33
NA	When the Sharpness is set to 0, the video looks out of focus.	Use the default Sharpness value.



5 Firmware Upgrade Procedure

The camera's firmware can be updated by using the Discovery Network Assistant (DNA) tool or over the web from the unit's web interface. It is recommended to use DNA firmware version 2.1.3.15 or higher to upgrade from a previous firmware version.

5.1 Upgrading with DNA

To perform the firmware upgrade

1. If the camera is connected to United VMS, stop the Latitude services.
2. Run DNA and perform the firmware upgrade according to instructions in the [DNA User Manual](#). Download the manual from [here](#).
3. If the camera was connected to United VMS, restart the Latitude services.



Note:

Upgrade through DNA is a two-phase process. First upload the *ulmage_userland_all_20180124* file and then load either the *ptz_V2RC011_TAM30X_20170718.bin* (for CP-6302-31-I only) or *ptz_V2RC011N_TAM30X_20170718.bin* file (for CP-6302-31-P or CP-6302-30-R).

5.2 Upgrading from the Camera's Web Interface

To perform the firmware upgrade

1. From the **Settings** tab, select **System > Maintenance > Software Upgrade**.
2. On Step1, click **Browse** to locate the firmware file.
3. Select the file. The file name is displayed. For the system firmware, for example, *ulmage_userland_all_20180124*.
4. On Step2, make sure that *ulmage+userland.img* is selected. Click **Upgrade**. The upgrade process takes a few minutes.
5. After the firmware has upgraded successfully, the camera reboots.
6. After the camera initializes, go back to the **Software Upgrade** web page. In Step1, for CP-6302-31-I, browse and select the *ptz_V2RC011_TAM30X_20170718.bin* file. For CP-6302-31-P or CP-6302-30-R, select the *ptz_V2RC011N_TAM30X_20170718.bin* file.
7. On Step2, select the *ptz.bin* option from the drop menu and click on **Upgrade**.
8. After the firmware has upgraded successfully, the camera reboots.



Note:

For Beta participants, it's advised to apply partial factory defaults after the upgrade. This can be done through DNA or the camera's web UI, on the Settings > System > Factory Default page.



6 United VMS Compatibility

The firmware was approved for United VMS 7.0.0.5783 and United VMS 8.0.0.6105 or higher support.

It is necessary to install an Update Patch for the unit to operate with United VMS 7.0 and United VMS 8.0.

6.1 United VMS 7.0 and United VMS 8.0 Update Patch

To install the Update Patch

1. Download the Update Patch for your VMS (United VMS 7.0.0.5783 or United VMS 8.0.0.6105).
2. Run the file on every server and workstation in the system.
3. Upgrade the Directory/EDB.
4. Upgrade each Archiver.
5. After all the servers are upgraded, upgrade the workstations using the method below.
6. In the United VMS client application, from the **Help** tab, select the *Check for Updates* option. A popup opens, indicating that there is an update to download from the Update server.
7. Select **Yes** to download the update file. A popup appears on the screen.
8. Click **Install**. The installation may take several minutes.



Appendix

A.1. Discovering and Configuring the Camera with DNA

For the initial discovery of the camera on networks without a DHCP server, DNA 2.1.3.15 or higher is required. DNA is also used to access the camera and to change its IP address. DNA can be downloaded from [here](#) on the FLIR website.

If you have more than one camera, connect them one at a time and change their IP addresses to avoid potential network conflicts.



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