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DC-GH5 Firmware Update Service Ver.2.0 for Exceptional Enhancement of

Performance and Functions

- Panasonic responds to user demands in firmware update
- Enhanced functionality for professional users
- Exceptional camera upgrades to improve imagery

Panasonic Lumix is announcing the new firmware update program Ver.2.0 for the Lumix DC-GH5 to further enhance its performance. After speaking with prominent photographers and cinematographers worldwide who have used the GH5, Panasonic examined which functions were in-demand by users and therefore what was required from the update. This has led to the enhancement not just being a firmware update, but an exceptional upgrade of camera performance to satisfy professional Lumix GH5 users.

The new firmware includes the following upgrades:

1. An additional ALL-Intra Video Recording mode
- 4:2:2,10bit ALL-Intra video recording mode is added to 4K/FHD video recording.

*Use of SD Memory Card with Video Speed Class 60 or higher is recommended for 4K ALL-Intra video recording. Operation is confirmed with Panasonic SD Memory Card with Video Speed Class 90.

New 4:2:2,10-bit ALL-Intra Recording Mode

Item	System Frequency	Size	Frame Rate	Bit Rate	YUV/bit	Image Compression
C4K/ALL-I/400M/24p	59.94Hz (NTSC)	4096x2160	23.98p	400 Mbps	4:2:2/10 bit	ALL-Intra
4K/ALL-I/400M/30p		3840x2160	29.97p	400 Mbps	4:2:2/10 bit	ALL-Intra
4K/ALL-I/400M/24p		3840x2160	23.98p	400 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/60p		1920x1080	59.94p	200 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/30p		1920x1080	29.97p	200 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/24p		1920x1080	23.98p	200 Mbps	4:2:2/10 bit	ALL-Intra
4K/ALL-I/400M/25p	50.00Hz (PAL)	3840x2160	25.00p	400 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/50p		1920x1080	50.00p	200 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/25p		1920x1080	25.00p	200 Mbps	4:2:2/10 bit	ALL-Intra
C4K/ALL-	24.00Hz	4096x2160	24.00p	400 Mbps	4:2:2/10 bit	ALL-Intra

I/400M/24p	(CINEMA)				
4K/ALL-I/400M/24p		3840x2160	24.00p	400 Mbps	4:2:2/10 bit	ALL-Intra
FHD/ALL-I/200M/24p		1920x1080	24.00p	200 Mbps	4:2:2/10 bit	ALL-Intra

2. 4K HDR video recording

- [HLG] (Hybrid Log Gamma) is added to [Photo Style]. HDR (High Dynamic Range) is a mode to reproduce both the bright part and dark part in an image, making it appear as the human eye would see. The camera records video with a designated gamma curve compatible with ITU-R BT.2100, and users can now choose Hybrid Log-Gamma (HLG) in [Photo Style].

- A low bit-rate 4K HLG recording mode 4K HEVC for HLG has been added. This enables playback on AV equipment compatible with the HEVC compression format, such as Panasonic 4K HDR TVs.

3. Enhancement of the Anamorphic video recording mode

- High-Resolution Anamorphic mode, which enables video recording in 18-mega effective pixels, is added.
  *Recorded in HEVC

New High-Resolution Anamorphic Mode

Item	System Frequency	Size	Frame Rate	Bit Rate	YUV/bit	Image Compression
6K/A/200M/30p	59.94Hz	4992x3744	29.97p	200 Mbps	4:2:0/10 bit	Long GOP
6K/A/200M/24p	(NTSC)	4992x3744	23.98p	200 Mbps	4:2:0/10 bit	Long GOP
4K/A/400M/30p		3328x2496	23.98p	400 Mbps	4:2:2/10 bit	ALL-Intra
4K/A/400M/24p		3328x2496	23.98p	400 Mbps	4:2:2/10 bit	ALL-Intra
6K/A/200M/25p	50.00Hz	4992x3744	25.00p	200 Mbps	4:2:0/10 bit	Long GOP
4K/A/400M/25p	(PAL)	3328x2496	25.00p	400 Mbps	4:2:2/10 bit	ALL-Intra
6K/A/200M/24p	24.00Hz	4992x3744	24.00p	200 Mbps	4:2:0/10 bit	Long GOP
4K/A/400M/24p	(CINEMA)	3328x2496	24.00p	400 Mbps	4:2:2/10 bit	ALL-Intra

- [Anamorphic Desqueeze Display] has been added, which lets you view an enlarged image in Cinescope size while recording with 2.0x and 1.33x Anamorphic lenses.
- [Video Guide Line] has been added to display the image in a variety of aspects, such as Cinescope, 16:9 and 1:1 while recording video. It can be used not only in Anamorphic mode but also in other video recording modes.

4. Improved auto focus performance

- Auto focus [AF] performance is improved for subjects with low contrast in photo shooting.
- Tracking auto focus performance in video recording is improved.

- The customised AF area can be continuously displayed in [Multi AF] and [Custom Multi AF] during live-view.
- The AF area in [Multi AF] can be moved to the other edge (side, top or bottom) when it reaches one edge.
- The start point of AF lock can be set on the live view screen in advance of [AF Tracking].
- The AF area can be moved while the shutter button is half-pressed or while recording in [Burst Mode], [6K PHOTO] and [4K PHOTO].

5. Compatibility with "LUMIX Tether" PC software

The new firmware enables GH5 tethered shooting via USB, using "LUMIX Tether" PC software. Users can control the camera by connecting it to a PC via a USB. It lets you view the image on a large PC screen while shooting, which is helpful in commercial photoshoots of products and portraits etc where continuous confirmation is required. Using [6K PHOTO] or [4K PHOTO] users can start and stop video recording with the tethered shooting. It is also possible to choose the folder to save the image files to the PC.

6. Enhancement of Body I.S. (Image Stabilizer)

- [I.S. Lock(video)] has been added. This compensates for handshake when the viewing angle is fixed.
- A new handshake correction mode has been added, which provides optimum correction when using 2.0x and 1.33x Anamorphic lenses.

7. Improved performance in [6K PHOTO] and [4K PHOTO]

- The waiting time to start the next burst shooting sequence after [6K Burst] and [4K Burst] is shortened to less than half the time.
- [Loop Rec] is available in [6K PHOTO]

*Use of Panasonic SD Memory Card with Video Speed Class 90 is recommended for [Loop Rec] of [6K PHOTO].

8. Improved usability of Time Lapse Shot

- The time to finish shooting and the number of recordable pictures are displayed on the stand-by screen.

9. Improved usability of Power Save LVF

- Power Save LVF can now be used during all stand-by display options.

10. Correction of white balance setting

- When the K (Kelvin) value was changed after adjusting the colour temperature with 2-axis white balance compensation, the setting was reset. This bug has been fixed.

11. Wireless functions

- The Bluetooth Remote Control function can be used with Image App, which will also be updated at the same timing with the GH5 firmware release.
- If the camera has not completed image transmission when it is turned off, it restarts transmission when it is turned on with the [Auto Transfer] function.

12.Other improvements

- A rating function using a Fn button is available in Playback Zoom and Multi Playback.
- The following functions can be assigned to Fn buttons - [Constant Preview] [6K/4K PHOTO Bulk Saving] [Min. Shtr Speed] [RAW Processing] [Rec/Playback Switch] [Destination Slot] and [Mic Level Adj.].
- The DISP.Button can be locked.
- In Relay Rec, there were cases where the video file number was not able to be reset. This bug has been fixed.
- In Relay Rec, there were cases where the video file number was reset after formatting the SD Memory Card. This bug has been fixed.
- In Backup Rec, there were cases where the file number did not reset even after applying the resetting function. This bug has been fixed.
- The image quality when applying the following settings has been improved: Extended low ISO, [i.Dynamic] (Intelligent D-range Control) and Highlight Shadow.

The new Lumix DC-GH5 firmware Version 2.0 is scheduled to be released at the end of September 2017 under the following LUMIX Customer Support website:

LUMIX DC-GH5 Firmware Ver.2.0
http://panasonic.jp/support/global/cs/dsc/

 # ENDS #

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