

Dear Customer

◆ About the Upgrade of the DC-GH5 Firmware

The following functions were added or changed from Ver. 1.1 of the firmware.

Please read this in conjunction with the owner's manual for the camera.

- The firmware version can be checked from the [Version Disp.] of the [Setup] menu.

FHD motion pictures in 4:2:2/10 bit format has been added to [Rec Quality] when [Rec Format] is set to [MP4 (LPCM)] or [MOV].

When [Rec Format] is set to [MP4 (LPCM)] or [MOV], you can now select the items below in [Rec Quality] in the [Motion Picture] menu.

Item	System frequency	Size	Frame rate	Bit rate	YUV/bit	Image compression
[FHD/10bit/100M/60p]	59.94Hz (NTSC)	1920×1080	59.94p	100 Mbps	4:2:2/10 bit	Long GOP
[FHD/10bit/100M/30p]		1920×1080	29.97p	100 Mbps	4:2:2/10 bit	Long GOP
[FHD/10bit/100M/24p]		1920×1080	23.98p	100 Mbps	4:2:2/10 bit	Long GOP
[FHD/10bit/100M/50p]	50.00Hz (PAL)	1920×1080	50.00p	100 Mbps	4:2:2/10 bit	Long GOP
[FHD/10bit/100M/25p]		1920×1080	25.00p	100 Mbps	4:2:2/10 bit	Long GOP
[FHD/10bit/100M/24p]	24.00Hz (CINEMA)	1920×1080	24.00p	100 Mbps	4:2:2/10 bit	Long GOP

- When [Miniature Effect] is selected for Creative Control Mode, you cannot select the items used for 4:2:2/10 bit motion pictures.

4:2:2/10 bit motion pictures has been added to [Anamorphic(4:3)] in the [Creative Video] menu.

You can now select the items below in [Anamorphic(4:3)] in the [Creative Video] menu.

- [Anamorphic(4:3)] is available only when the camera is set to Creative Video Mode.

Item	System frequency	Size	Frame rate	Bit rate	YUV/bit	Image compression
[4K/A/150M/30p]	59.94Hz (NTSC)	3328×2496	29.97p	150 Mbps	4:2:2/10 bit	Long GOP
[4K/A/150M/24p]		3328×2496	23.98p	150 Mbps	4:2:2/10 bit	Long GOP
[4K/A/150M/25p]	50.00Hz (PAL)	3328×2496	25.00p	150 Mbps	4:2:2/10 bit	Long GOP
[4K/A/150M/24p]	24.00Hz (CINEMA)	3328×2496	24.00p	150 Mbps	4:2:2/10 bit	Long GOP

■ Notes on 4:2:2/10 bit motion pictures

- Motion pictures in 4:2:2/10 bit format are intended for editing on a computer used for video production. As such, they are not supported by TVs, recorders, and players manufactured by Panasonic.
- To use 4:2:2/10 bit motion pictures with the software "PHOTOfunSTUDIO", a 64 bit OS version of Windows 7/Windows 8.1/Windows 10 and a high-performance PC environment are required. Refer to the operating instructions of "PHOTOfunSTUDIO" (PDF file) for further operating environment.

Approximate available recording times for the motion picture settings added by this firmware update

- The recordable time is the total time of all the motion pictures which have been recorded.
- "h" is an abbreviation for hour, "m" for minute and "s" for second.

[Rec Quality]	System frequency	16 GB	32 GB	64 GB	128 GB
[FHD/10bit/100M/60p] [FHD/10bit/100M/30p] [FHD/10bit/100M/24p]	59.94Hz (NTSC)	19m00s	40m00s	1h20m	2h45m
[4K/A/150M/30p] [4K/A/150M/24p]		12m00s	27m00s	56m00s	1h50m
[FHD/10bit/100M/50p] [FHD/10bit/100M/25p]	50.00Hz (PAL)	19m00s	40m00s	1h20m	2h45m
[4K/A/150M/25p]		12m00s	27m00s	56m00s	1h50m
[FHD/10bit/100M/24p] [4K/A/150M/24p]	24.00Hz (CINEMA)	19m00s	40m00s	1h20m	2h45m
[4K/A/150M/24p]		12m00s	27m00s	56m00s	1h50m

- Motion picture file will be recorded and played back in separate files in the following cases. (You can continue recording without interruption.)
 - When using an SDHC memory card: If the file size exceeds 4 GB
 - When using an SDXC memory card: If the continuous recording time exceeds 3 hours and 4 minutes or if the file size exceeds 96 GB

Information on updating the smartphone/tablet app "Panasonic Image App" to the latest version.

When updating the camera's firmware, it is also necessary to update the "Image App" to the latest version.

- Update the "Image App" to the latest version using your smartphone/tablet.