

## Dear Customer

### ◆ About the Upgrade of the DC-GH5 Firmware

The following functions were added or changed from Ver. 2.3 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.

### ■ About extended menus

The menus below become available after you enable extended functions with an Upgrade Software Key (DMW-SFU1: optional).


[Creative Video]	[V-LogL View Assist]
[Motion Picture]	[LUT HDMI Display] in [HDMI Rec Output]
[Custom] ([Monitor / Display])	[V-LogL View Assist]
[Setup]	[LUT HDMI Display] in [TV Connection]
[Playback]	[LUT Monitor Display]



## Addition of new functions

**[L.Monochrome D] has been added to [Photo Style] in the [Rec] menu.**

Applicable modes:   **P** **A** **S** **M**  

**MENU** →  [Rec] → [Photo Style]

 <b>[L.Monochrome D]</b>	Monochrome effect that creates a dynamic impression with enhanced highlights and shadows.
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- You can adjust the following picture quality settings:
  - [Contrast]/[Sharpness]/[Noise Reduction]/[Color Tone]/[Filter Effect]/[Grain Effect]
- The Auto Focus Mode [] operates in the same way as [].


**The [Grain Effect] picture quality adjustment has been added to [Photo Style] in the [Rec] menu.**

Applicable modes:   **P** **A** **S** **M**  

#### 1 Select the menu.

**MENU** →  [Rec] → [Photo Style] →  
[Monochrome]/[L.Monochrome]/[L.Monochrome D]

#### 2 Press ▲/▼ to select [Grain Effect], and then press ◀/▶ to adjust.

 <b>[Grain Effect]</b>	[Low/] [Standard/] [High]	Sets the grain effect level.
	[Off]	—

#### 3 Press [MENU/SET].

- The effect of [Grain Effect] cannot be checked on the recording screen.
- [Grain Effect] is not available in the following cases:
  - When recording motion pictures
  - When recording 6K/4K photos
  - When recording with the Post Focus function
- If you set [Grain Effect], Auto Review will not be displayed when recording with [Time Lapse Shot] or [Stop Motion Animation].

**[Live View Boost] has been added to the [Custom] menu.**

The screen is displayed brighter than the image recorded.  
This will make it easier to check the composition in low-light environment.

**MENU** →  [Custom] →  [Monitor / Display] → [Live View Boost]

Settings: [ON]/[OFF]/[SET]

- You can change the Recording Mode in which [Live View Boost] works by using [SET].
- Noise may be more noticeable in the screen than in the recorded image.
- This function does not work in the following cases:
  - When adjusting the exposure (when the shutter button is pressed halfway, for example)
  - When recording a motion picture or 6K/4K photo
  - When an image effect in [Filter Effect] of [Filter Settings] is set
  - When using [Constant Preview]
- [Peaking] in the [Custom] ([Monitor / Display]) menu will not be available.

**[Night Mode] has been added to the [Setup] menu.**

This displays the monitor and viewfinder screens in red. It reduces the difficulty in seeing the surroundings caused by brightly-lit screens in low-light environment.



**MENU** →  [Setup] → [Night Mode]

- 1 Press ▲/▼/◀/▶ to select [ON] for the monitor or viewfinder (LVF).
- 2 Press [DISP.] to display the brightness adjustment screen.
- 3 Press ◀/▶ to adjust the brightness, and press [MENU/SET].

- This mode does not affect recorded images.
- This effect is not applied to images output via HDMI.
- The following menus will not be available.
  - [Monochrome Live View] in the [Custom] ([Monitor / Display]) menu
  - [Monitor Luminance] in the [Setup] menu

**[Focus Ring Lock] has been added to the [Custom] menu.**

This disables the focus ring operation of the interchangeable lens during Manual Focus to lock the focus.

**MENU** →  [Custom] →  [Operation] → [Focus Ring Lock]

Settings: [ON]/[OFF]

- [MFL] is displayed on the recording screen while the focus ring is locked.

**[WB/ISO/Expo. Button] has been added to the [Custom] menu.**

This sets the operation to be performed when [WB] (White Balance), [ISO] (ISO sensitivity) or [] (Exposure Compensation) is pressed.

**MENU** →  [Custom] →  [Operation] → [WB/ISO/Expo. Button]

<b>[While Pressing]</b>	Allows you to change the setting while pressing and holding the button.
<b>[After Pressing]</b>	Allows you to change the setting after pressing the button.

[Dial] has been added to [Operation Lock Setting] in the [Custom] menu.

**MENU** → [Custom] → [Operation] → [Operation Lock Setting]

[Dial]	Disables the front, rear, and control dial operations.
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- Press the function button assigned with [Operation Lock] to disable the operations.

[Power / Wireless Indicator] has been added to the [Setup] menu.

This can disable the status indicator and the WIRELESS connection lamp.  
If you select [OFF], they will not light/flash.

**MENU** → [Setup] → [Power / Wireless Indicator]

Settings: [ON]/[OFF]

### Improved ease of operation Other function additions/modifications

Recording Modes available for [Like709] and [V-Log L] in [Photo Style] have been added.

Applicable modes:

**MENU** → [Rec] → [Photo Style] → [Like709]/[V-Log L]

- [V-LogL View Assist] can now also be set by using the following menu:

**MENU** → [Custom] → [Monitor / Display] → [V-LogL View Assist]

[LUT Monitor Display] and [LUT HDMI Display] are now available for playback.

- [LUT Monitor Display] and [LUT HDMI Display] can now also be set by using the following menus:

**MENU** → [Playback] → [LUT Monitor Display]

**MENU** → [Setup] → [TV Connection] → [LUT HDMI Display]

- These effects will be applied to images recorded with [V-Log L] in [Photo Style].

Items that can be assigned to the function buttons have been added.

**MENU** → [Custom] → [Operation] → [Fn Button Set] → [Setting in REC mode]/[Setting in PLAY mode]

[Setting in REC mode]

<ul style="list-style-type: none"> <li>- [Focus Ring Lock]</li> <li>- [E-Stabilization (Video)]</li> <li>- [Mic Level Disp.]</li> </ul>	<ul style="list-style-type: none"> <li>- [Live View Boost]</li> <li>- [Night Mode]</li> <li>- [L.Monochrome D]</li> </ul>
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- [Focus Ring Lock] can also be set by using [Lens Fn Button Setting].

**MENU** → [Custom] → [Lens / Others] → [Lens Fn Button Setting]

[Setting in PLAY mode]

<ul style="list-style-type: none"> <li>- [LUT Monitor Display]</li> <li>- [LUT HDMI Display]</li> </ul>	<ul style="list-style-type: none"> <li>- [Night Mode]</li> </ul>
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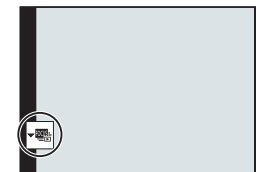
Pictures in a group can now be selected for RAW processing.

**MENU** → [Playback] → [RAW Processing]

1 Press to select a picture group.

2 Press .

- You can perform the same operation by touching , etc.
- To return to the picture selection screen, press again, or touch .



[Returning from Sleep Mode] has been added to [Bluetooth] in the [Setup] menu.

Select the smartphone function with which you want to shorten the time required to wake the camera from [Sleep Mode].

- Set [Bluetooth] and [Remote Wakeup] to [ON] in advance.

**MENU** → [Setup] → [Bluetooth] → [Returning from Sleep Mode]

[Remote / Transfer Priority]	Shortens the time required to wake the camera with [Remote operation] or [Transfer image].
[Shutter Remote Priority]	Shortens the time required to wake the camera with [Shutter Remote Control].

The battery indication has been modified.

	75% or higher
	74% to 50%
	49% to 25%
	24% or below
	Low battery • The status indicator also blinks. • Recharge the battery or replace it with a fully charged battery.

- The battery level indicated on the screen is approximate. The exact level varies depending on the environment and the operating conditions.

MF Assist can now be displayed enlarged up to approx. 20×.

When shown in full screen, the display can be enlarged up to approx. 20×.

About the “LUMIX Tether” software

LUMIX Tether Ver. 1.3 or higher is required to connect to a camera with updated firmware.

Check the site below to download and install the software.

[http://panasonic.jp/support/global/cs/soft/download/d\\_lumixtether.html](http://panasonic.jp/support/global/cs/soft/download/d_lumixtether.html)