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CHANGING PHOTOGRAPHY

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LUMIX

Image quality

Digital Live MOS sensor delivers the ultimate in LUMIX image quality.

Ultra high-speed DFD AF freezes the frame with stunning clarity and

5-stop, 5-axis Dual I.S.2 stabilizes the world you see.

World's first 4K/60P*1 video recording, 4:2:2*2 10-bit faithful color reproduction

and practical features support a professional workflow.

6K PHOTO*3 lets you confidently capture moments otherwise left to chance.

Explore new dimensions of photography and videography with

the LUMIX GH5 Mirrorless System Camera.



LUMIX GH5

Highest-ever LUMIX picture quality

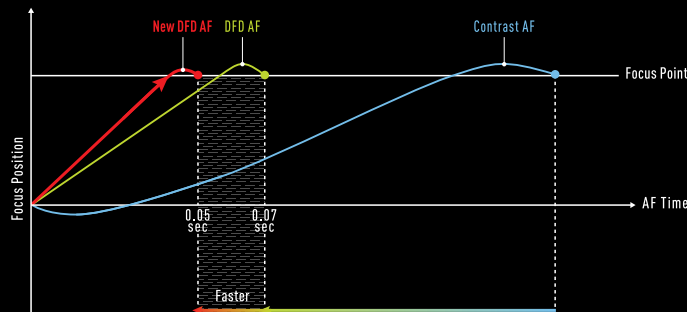
20MP MOS Sensor and New Venus Engine

The LUMIX GH5 includes a newly developed 20.3-megapixel Digital Live MOS Sensor without low-pass filter and new Venus Engine, which achieve the highest ever image quality of all LUMIX G digital cameras to date. Multipixel Luminance Generation and Intelligent Detail Processing result in natural images with stunning detail. Three-dimensional color control also allows improved color expression. Furthermore, high precision noise reduction gives a more natural stereoscopic image - even with high sensitivity shooting. These improvements, in combination with the Digital Live MOS Sensor, render truly clear images with minimum noise even in low-light and max. ISO 25600.

New AF System with Advanced DFD Technology

DFD (Depth From Defocus) technology* is further empowered by the new Venus Engine, which is capable of ultra high-speed digital signal processing at a maximum of 480 fps. By analyzing every single frame precisely, this achieves higher precision frame detection with minimum motion detection error for higher tracking tolerance against moving subjects. The combination of Contrast AF and new DFD technology achieves the industry's fastest level of auto focusing of approx. 0.05 sec** and 12 (AFS) / 9 (AFC) fps high-speed burst shooting.

* Contrast AF with DFD Technology works only with Panasonic Micro Four Thirds lenses.
** In AFS, at wide-end with H-ES12060 (CIPA).



■ Durable Mg Body - Splash / Dust / Freezeproof

The LUMIX GH5 is well-suited to active outdoor shooting. The frame is constructed of lightweight, durable magnesium alloy. All joints, dials and buttons are sealed to make it both splash and dustproof. It is also specially designed to tolerate freezing temperatures down to -10°C (14°F). The shutter unit is built to withstand approximately 200,000 releases and offers the highest shutter speed (max. 1/8,000 sec) to capture fast-moving subjects, or for using a high-speed lens outdoors. An external flash can be synchronized with a max. 1/250 sec shutter speed.

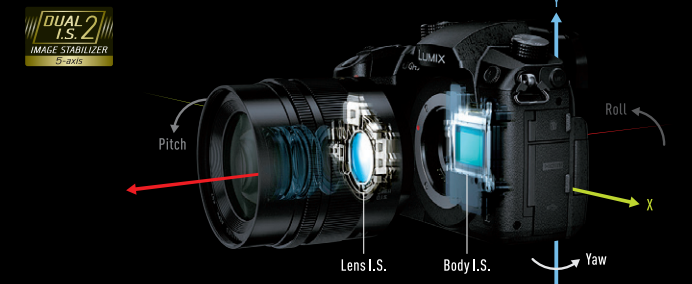
■ 0.76x 3,680k-dot OLED LVF/3.2" Free-angle Touch Monitor

The LUMIX GH5 boasts a Live View Finder (LVF) with an astounding high magnification ratio of approx. 1.52x / 0.76x (35mm camera equiv.). This uses a high-precision, high-speed and high-resolution 3,680K-dot OLED (Organic Light-Emitting Diode) display with 100% field of view ratio. Thanks to this high-response OLED, the LVF achieves excellent visibility with an almost imperceptible time lag and a high 10,000:1 contrast. High visibility with comfort is also enjoyed by users wearing glasses due to an eye point distance of approx. 21 mm. The 3.2-inch free-angle rear monitor in 3:2 aspect with 1,620K-dot high resolution achieves an almost 100% field of view and uses a static-type touch control system. The monitor adopts White pixels in addition to RGB (Red, Green and Blue) pixels to deliver much improved visibility, even under direct sunlight. It also tilts approx. 270-degrees up and down for easier high or low angle shooting.

5-axis Dual I.S.2

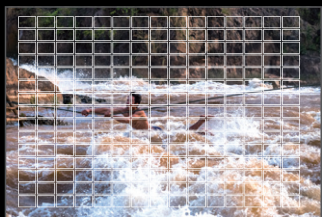
The LUMIX GH5 features the new 5-axis Dual I.S.2* (image stabilizer) for more powerful and effective camera-shake suppression. Through the perfect combination of body and optical image stabilizers, conventionally uncontrollable larger movements are corrected. The LUMIX GH5 integrates a high-precision gyrosensor that controls the distribution of O.I.S. / B.I.S. compensation by analyzing the focal length and shooting situation, making it possible to achieve up to 5-stop slower shutter speeds**. Intelligently balanced, this optimized shake correction is highly effective for not only wide-angle but also telephoto shooting, and even for 4K video recording.

* 5-Axis Dual I.S.2 can be used with the H-FS12060 lens and H-FS14140 lens (requires updated firmware) as of January 4, 2017. Firmware for using 5-Axis Dual I.S.2 with the H-RS100400 lens will also be released in February 2017. The newly introduced H-ES12060, H-HSA12035, H-HSA35100, H-FSA45200 and H-FSA100300 are all compatible with 5-Axis Dual I.S.2.
** Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=50-140mm (35mm film camera equivalent f=100-280mm)], when H-FS14140 is used.]



225-area Multi AF

In the LUMIX GH5, to provide even more precise focusing, the number of focus areas has been increased from 49 to 225. You can create any group out of the 225 focus areas and move or change its size to suit the composition you want. All focusing operations are easily controlled using the thumb-position joystick. The tracking sensitivity and speed can be adjusted depending on the subject, with custom pre-sets also possible.



Pro shooting performance for 4K video production

4K/60p Video Recording



Based on the Micro Four Thirds standard, the LUMIX GH5 body achieves a world first*, with its 4K / 60p and 4K / 50p video recording with no cropping, rendering ultra-high definition and smooth video quality with no limit to the recording time. These features meet professional quality standards.

* As a Digital Single Lens Mirrorless (DSLM) camera, as of 4 January, 2017

4K/30P 4:2:2 10-bit Internal Recording*

The LUMIX GH5 is capable of even more faithful color reproduction, with internal recording of video in 4:2:2 10-bit**. With the 20.3-megapixel Digital LiveMOS Sensor and Venus Engine handling digital signals at ultra-high speed, image quality per frame is dramatically improved. The color around edges is less jaggy, as well as being smoother, with rich color reproduction and grading. For non-linear editing and for post-production color grading, color control is also much improved.

* As an Interchangeable lens system camera, as of 4 January, 2017.

** 4:2:0 8-bit in 4K 60p/50p recording on SD Memory Card.



Features with Professional-style Expression

The Variable Frame Rate (VFR) lets you record overcranked and undercranked video, all in 4K (maximum 2.5x slower) or Full-HD (maximum 7.5x slower). In addition, the LUMIX GH5 complies with V-LogL video recording with the purchase of the optional Upgrade Software Key DMW-SFU1. Log recording offers exceptional flexibility with a wider dynamic range for color grading. V-LogL featuring log characteristics with 12 steps. Now, with the Look Up Table (LUT) in camera, you can playback graded video footage recorded in V-LogL. Furthermore, as well as the conventional CINELIKE D and CINELIKE V presets, a new 'LIKE 709' gamma - with characteristics similar to the standard used for HDTV - has been added. As such, you can shoot with rich image expression.

■ Double SD Card Slot

The LUMIX GH5 features the first UHS-II compatible double SD card slot in the LUMIX G series. In 'Relay Recording', recording onto the second card automatically starts when the first card reaches capacity. In 'Backup Recording', the same contents are recorded on both cards simultaneously. Furthermore, with 'Allocation Recording', it is possible to select either cards in Slot 1 or Slot 2 for RAW, JPEG, 4K PHOTO, or 4K video data recording.



■ Battery Grip

The newly introduced DMW-BG6H5 battery grip is specially designed to be compatible with the LUMIX GH5 camera. Loaded with two batteries and attached to the camera this grip delivers significantly longer shooting time. Robust as well as splash / dust / freezeproof the grip is easy to grasp even when shooting vertically, perfectly complementing the LUMIX GH5 design.



■ XLR Microphone Adaptor

When shooting video, this adaptor allows you to record high-grade stereo sound to the camera directly through a high-spec XLR microphone. High-Res recording (at 96kHz/24-bit) is also possible when shooting 4K video (MOV only). Selecting between separate MIC / LINE / condenser microphones is also possible using the input switches on the control panel.



■ Bluetooth® & Wi-Fi®



The LUMIX GH5 supports Bluetooth® 4.2 (Bluetooth® Low Energy), so that your smartphone or tablet Bluetooth connection ensures only minimal battery consumption. Once paired it is always connected so you can launch your camera anytime from your device without touching it. The Wi-Fi® connectivity of the LUMIX GH5 enables a more flexible shooting experience with easy operation, including instant image-sharing. By connecting it to a smartphone or tablet installed with "Panasonic Image App for iOS / Android" software, you can remotely control the camera to shoot, view or share images. In addition to the conventional 2.4GHz IEEE802.11b/g/n wireless standards, the LUMIX GH5 also supports the more powerful 5GHz IEEE802.11ac standard. With 5GHz your wireless transfer of photo and video data is now faster.

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HDMI Output

The LUMIX GH5 can output video in 4:2:2 10-bit for every recording mode when not recording in-camera. Even while recording video to the main body, it can simultaneously output video in 4:2:2 10-bit, in virtually any recording mode*. It uses the highly versatile Type-A HDMI terminal which, thanks to a cable lock holder, is far less prone to accidental disconnecting. You can choose to output the data with the menu or OSD information when you output video to the external video monitor and without them to the external recorder.

* If using main body recording, output is 4:2:2 8-bit for 4K 60p/50p.



6K PHOTO



The new 6K PHOTO feature makes it possible to capture those special fleeting moments by extracting and singling out the most perfect frame from a 6K burst file at 30 fps (in either 4:3 or 3:2 aspect), saved as an approx. 18MP high resolution photo.



■ Firmware Update Schedule

April, 2017

- Full HD 4:2:2 10-bit video recording capability.

Second half of 2017

- 400Mbps 4:2:2 10-bit All-Intra video recording in 4K 30p/25p/24p and Full HD.
- High resolution video recording in Anamorphic mode.
- Hybrid Log Gamma in Photo Style mode which enables popular 4K HDR video recording.
- USB tethering.



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*1 As a Digital Single Lens Mirrorless camera as of 4 January, 2017. *2 As a Interchangeable lens system camera as of 4 January, 2017. *3 6K PHOTO is a high speed burst shooting function that cuts a still image out of a 4:3 or 3:2 video footage with approx. 18-megapixel (approx. 6000 x 3000 effective pixel count) that the 6K image manages.