



LUMIX GH4 Professional 4K Mirrorless Interchangeable Lens Camera Body Only

DMC-GH4KBODY

• TYPE

- Type Digital Single Lens Mirrorless camera
- Recording media SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS UHS Speed Class 3 standard SDHC / SDXC Memory Cards)
- Image sensor size 17.3 x 13.0 mm (in 4:3 aspect ratio)
- Lens mount Micro Four Thirds mount

• IMAGE SENSOR

- Type Live MOS Sensor
- Total pixels 17.20 megapixels
- Camera effective pixels 16.05 megapixels
- Color filter Primary color filter
- Dust reduction system Supersonic wave filter

• RECORDING SYSTEM

- *Recording file format*
- Still image JPEG (DCF, Exif 2.3), RAW, MPO (When attaching 3D lens in Micro Four Thirds system standard)
- Motion picture MOV (Audio format LPCM), MP4 (Audio format LPCM / AAC 2ch), AVCHD (Audio format: Dolby Digital 2ch)
- System frequency 59.94Hz, 50.00Hz, 24.00Hz
- Aspect ratio 4:3, 3:2, 16:9, 1:1
- Image quality RAW, RAW+Fine, RAW+Standard, Fine, Standard / MPO+Fine / MPO+Standard (with lens in Micro Four Thirds system standard)
- Color Space sRGB, AdobeRGB
- *File size(Pixels)*
- Still Image [4:3] 4608x3456(L) / 3264x2448(M) / 2336x1752(S) / 1824x1368 (with 3D lens in Micro Four Thirds system standard) / [3:2] 4608x3072(L) / 3264x2176(M) / 2336x1560(S) / 1824x1216 (with 3D lens Micro Four Thirds system standard) / [16:9] 4608x2592(L) / 3840x2160(M) / 1920x1080(S) / 1824x1024 3D lens in Micro Four Thirds system standard) / [1:1] 3456x3456(L) / 2448x2448(M) / 1744x1744(S) / 1712x1712 (with 3D lens in Micro Four Thirds system standard)
- Motion picture (MOV*:59.94Hz) [4K] 3840x2160:29.97p, 100Mbps (IPB) (LPCM) / [4K] 3840x2160:23.98p, 100Mbps (IPB) (LPCM) / [Full HD] 1920x1080:59.94p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:29.97p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:23.98p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM)
- Motion picture (MOV*:50.00Hz) [4K] 3840x2160:25.00p, 100Mbps (IPB) (LPCM) / [Full HD] 1920x1080:50.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:25.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM)
- Motion picture (MOV*:24.00Hz) [C4K] 4096x2160:24.00p, 100Mbps (IPB) (LPCM) / [4K] 3840x2160:24.00p, 100Mbps (IPB) (LPCM) / [Full HD] 1920x1080:24.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM)
- Motion picture (MP4*:59.94Hz) [4K] 3840x2160:29.97p, 100Mbps (IPB) (LPCM) / 100Mbps (IPB) (AAC) [4K] 3840x2160:23.98p, 100Mbps (IPB) (LPCM) / [4K] 23.98p, 100Mbps (IPB) (AAC)**** / [Full HD] 1920x1080:59.94p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:29.97p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:23.98p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM)

(LPCM) / [Full HD] 1920x1080:59.94p, 28Mbps (IPB) (AAC) / [Full HD] 1920x1080:29.97p, 20Mbps (IPB) (AAC) / [HD] 1280x720:29.97p, 10Mbps (IPB) (AAC) / [VGA] 640x480:29.97p, 4Mbps (IPB) (AAC)

- Motion picture (MP4*:50.00Hz) [4K] 3840x2160:25.00p, 100Mbps (IPB) (LPCM) / 100Mbps (IPB) (AAC) / [Full HD] 1920x1080:50.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:25.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM) / [Full HD] 1920x1080:50.00p, 28Mbps (IPB) (AAC) / [Full HD] 1920x1080:25.00p, 20Mbps (IPB) (AAC) / [HD] 1280x720:25.00p, 10Mbps (IPB) (AAC) / [VGA] 640x480:25.00p, 4Mbps (IPB) (AAC)
- Motion picture (MP4*:24.00Hz) [C4K] 4096x2160:24.00p, 100Mbps (IPB) (LPCM) / [4K] 3840x2160:24.00p, 100Mbps (IPB) (LPCM) / [Full HD] 1920x1080:24.00p, 200Mbps (ALL-Intra) (LPCM) / 100Mbps (IPB) (LPCM) / 50Mbps (IPB) (LPCM)
- Motion picture (AVCHD Progressive*:59.94Hz) [Full HD] 1920x1080:59.94p, 28Mbps (IPB) (Dolby)
- Motion picture (AVCHD Progressive*:50.00Hz) [Full HD] 1920x1080:50.00p, 28Mbps (IPB) (Dolby)
- Motion picture (AVCHD*:59.94Hz) [Full HD] 1920x1080:59.94i, 24Mbps (IPB) (Dolby) (Sensor output 29.97fps) / [Full HD] 1920x1080:59.94i, 17Mbps (IPB) (Dolby) (Sensor output is 59.94fps) / [Full HD] 1920x1080:23.98p, 24Mbps (IPB) (Dolby)
- Motion picture (AVCHD*:50.00Hz) [Full HD] 1920x1080:50.00i, 24Mbps (IPB) (Dolby) (Sensor output 25.00fps) / [Full HD] 1920x1080:50.00i, 17Mbps (IPB) (Dolby) (Sensor output is 50.00fps)
- Continuous recordable time (Motion picture) AVCHD: Approx. 220 min with H-HS12035 / AVCHD: Approx. 220 min with H-FS14140
- Actual recordable time (Motion picture) AVCHD: Approx. 110 min with H-HS12035 / AVCHD: Approx. 110 min with H-FS14140

• WiFi FUNCTION

- WiFi IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode, WP Wi-Fi Direct
- NFC ISO/IEC 18092, NFC-F (Passive Mode)
- QR Code Connection Yes

• VIEWFINDER

- Type OLED Live View Finder (2,359K dots)
- Field of view Approx. 100%
- Magnification Approx. 1.34x / 0.67x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1
- Eye point Approx. 21 mm from eyepiece lens
- Diopter adjustment -4.0 - +4.0 (dpt)
- Eye sensor Yes
- Eye sensor adjustment High / Low

• FOCUS

- Type Contrast AF system
- DFD technology Yes
- Focus mode AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF
- AF mode Face/Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint / (Full area touch available)
- AF detective range EV -4 - 18 (ISO100 equivalent)
- AF assist lamp Yes
- AF lock Yes (AF/AE LOCK button)

- Others One Shot AF, Shutter AF, Half Press Release, Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, AF+MF, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter

● EXPOSURE CONTROL

- Light metering system 1,728-zone multi-pattern sensing system
- Light metering mode Multiple / Center Weighted / Spot
- Metering range EV0-18 (F2.0 lens, ISO100 equivalent)
- Exposure mode Program AE, Aperture Priority AE, Shutter Priority AE, Manual
- ISO sensitivity (Standard Output Sensitivity) Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 13200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) / (Up to ISO6400 in motion picture recording) (Auto in M mode)
- Exposure compensation 1/3 EV step ±5EV (±3EV for motion picture)
- AE lock Yes (AF/AE LOCK button)
- AE bracket 3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single/burst

● WHITE BALANCE

- White balance Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting
- White balance adjustment Blue/Amber bias, Magenta/Green bias
- Color temperature setting 2500-10000K in 100K
- White balance bracket 3 exposures in blue/amber axis or in magenta/green axis

● SHUTTER

- Type Focal-plane shutter
- Shutter speed Still image: Bulb (Max. 60 minutes), 1/8,000 - 60 / Motion picture: 59.94Hz: 1/16,000 - 1/3 50.00Hz: 1/16,000 - 1/25, 23.98Hz: 1/16,000 - 1/24 (When using Synchro Scan)
- Shutter life Approx. 200,000 images
- Self timer 10sec, 3 images / 2sec / 10sec
- Remote control Remote control with Bulb function by DMW-RSL1 (Optional)

● BURST SHOOTING

- Burst speed Mechanical shutter: H: 12 frames/sec (with AFS), 7 frames/sec (with AFC), M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View) / Electronic shutter: SH: 40 frames/sec, H: 12 frames M: 7 frames/sec (with Live View), L: 2 frames/sec (with Live View)
- Number of recordable images Approx. 40 images (when there are RAW files with the particular speed), Approx. 100 images (when there are no RAW files) / Approx. 120 images (when using electronic shutter (depending on memory card size, battery power, picture size, and compression))

● 4K Photo Mode****

- Exif information Yes
- Selectable aspect ratio Yes (4:3 / 3:2 / 16:9 / 1:1 are selectable)
- Exposure mode Program AE / Aperture-Priority / Shutter-Priority / Manual Exposure
- Marking function Yes
- Loop Rec function Yes

● FLASH

- Built in flash type TTL Built-in-Flash, GN12 equivalent (ISO100 • m) / GN17 equivalent (ISO200 • m), Built-in Pop-up (Reference) / Lighting angle: 24mm (35mm camera equivalent)
- Flash Mode Auto*, Auto/Red-eye Reduction*, Forced On, Forced On/Red-eye Reduction, Slow Sync., S Sync./Red-eye Reduction, Forced Off * For iA, iA+ only.
- Synchronization speed Less than 1/250 second
- Flash output adjustment 1/3EV step ±3EV
- Flash synchronization 1st. Curtain Sync, 2nd Curtain Sync.
- Synchronization for flash dimming and exposure compensation Yes
- Flash sync socket Yes

● MONITOR

- Type OLED monitor with static touch control
- Monitor size Free-angle 3.0-inch / 3:2 aspect / Wide viewing angle
- <glossary>Pixels</glossary> Approx. 1036K dots
- Filed of view Approx. 100%
- Monitor adjustment Brightness (7 levels), Contrast and Saturation (7 levels), Red-Green (11 levels), Blue-Yellow (11 levels)

● LIVE VIEW

- Digital zoom 2x, 4x
- Extra Tele Conversion Still image: Max. 2x (Aspect ratio sets at 4:3. Not effective with L size recording. Magnification ratio depends on the recording pixels and aspect ratio.) / Motion picture: 2.4x (FHD), 3.6 (HD), 4.8x (VGA)
- Other functions Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight display (Still image / motion picture), Zebra pattern (Still image / motion picture)

● DIRECTION DETECTION FUNCTION

- Direction Detection Function Yes

● FUNCTION BUTTON

- Fn1, Fn2, Fn3, Fn4, Fn5, Fn6, Fn7, Fn8, Fn9, Fn10 Wi-Fi / Q.MENU / Preview / One Push AE / Touch / Level Gauge / Focus Area Set / Zoom Control / 1 Shot RAW+JPG / 1 Shot Spot Metering / Cursor Butt Lock / Photo Style / Aspect Ratio / Picture Size / Quality / AFS/AFF / Metering Mode / Burst Rate / Aut Bracket / Self Timer / Highlight Shadow / i. Dynamic / i. Resolution / HDR / Electronic Shutter / Flash M Flash Adjust. / Ex. Tele Conv. / Digital Zoom / Stabilizer / Motion Pic. Set / Variable Frame Rate / Pictu Mode / Synchro Scan / Time Code Display / Mic. Directivity Adjust / Color Bars / Silent Mode / Peaking Histogram / Guide Line / Zebra Pattern / Rec Area / Video-Priority Display / Step Zoom / Zoom Speed, Mode/MF / Restore to Default
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• PHOTO STYLE

- Still image and motion picture Standard / Vivid / Natural / Monochrome / Scenery / Portrait / Custom / Cinelike D* / Cinelike V* *When Creative Video Mode is selected.

• CREATIVE CONTROL

- Still image Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Dynamic Monochrome / Rough Monochrome / Silky Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Soft Focus / Fantasy / Star Filter / One Point Color Sunshine
- Motion picture Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome / Dynamic Monochrome / Impressive Art / High Dynamic / Cross Process / Toy Effect / Toy Pop / Bleach Bypass / Miniature Effect / Fantasy / One Point Color

• CREATIVE VIDEO MODE

- Exposure Mode Program AE/ Aperture-Priority / Shutter-Priority / Manual Exposure
- *Variable frame rate*
- 59.94Hz MOV/FHD/100Mbps/29.97p, MP4(LPCM)/FHD/100Mbps/29.97p: / 2fps, 15fps, 26fps, 28fps, 30fps, 32fps, 34fps, 45fps, 60fps, 75fps, 90fps, 96fps / MOV/FHD/100Mbps/23.98p, MP4(LPCM)/FHD/100Mbps/23.98p: / 2fps, 12fps, 20fps, 22fps, 24fps, 26fps, 28fps, 36fps, 48fps, 60fps, 72fps, 84fps, 96fps / AVCHD/24Mbps/29.97p:2fps, 15fps, 26fps, 28fps, 30fps, 32fps, 34fps, 45fps, 60fps / AVCHD/FHD/24Mbps/23.98p:2fps, 12fps, 20fps, 22fps, 24fps, 26fps, 28fps, 36fps, 48fps, 60fps
- 50.00Hz MOV/FHD/100Mbps/25.00p, MP4(LPCM)/FHD/100Mbps/25.00p:2fps, 12fps, 21fps, 23fps, 25fps, 27fps, 30fps, 37fps, 50fps, 62fps, 75fps, 96fps / AVCHD/FHD/24Mbps/25.00p:2fps, 12fps, 21fps, 23fps, 27fps, 30fps, 37fps, 50fps
- 24.00Hz MOV/FHD/100Mbps/24.00p, MP4(LPCM)/FHD/100Mbps/24.00p: / 2fps, 12fps, 20fps, 22fps, 26fps, 28fps, 36fps, 48fps, 60fps, 72fps, 84fps, 96fps

• MOTION PICTURE FUNCTION

- Master pedestal level 31 steps
- Luminance level 0-255 / 16-235 / 16-255
- Synchro scan Yes
- Time code Count Up: Rec Run/Free Run selectable, Time Code Mode: Drop frame/Non-drop frame selectable (When system frequency [59.94Hz] is selected.)
- SS/Gain operation Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB
- Color bars / 1kHz test tone Yes (SMPTE / EBU / ARIB) / Yes
- Cinelike gamma Cinelike D / Cinelike V

• PLAYBACK

- Playback mode Normal playback, 30-thumbnail display, 12-thumbnail display, Calendar display, Zoom playback (Max. 16x), Slideshow (All / Picture Only / Video Only / 3D / Category Selection / Favorite, duration & effect is selectable), Playback Mode (Normal / Picture / Video / 3D Play / Category / Favorite / Location Logging, RAW Processing, Clear Retouch, Title Edit, Text Stamp, Video Divide, Time Lapse / Stop Motion Video, Resize, Cropping, Rotate, Rotation Display, Favorite, DPOF Print Set, Protect, Face Recognition Edit, Picture Sort, Delete Confirmation

• IMAGE PROTECTION / ERASE

- Protection Single / Multi or Cancel

- Erase Single / Multi / All / Except Favorite
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- **PRINT**

- Direct Print PictBridge compatible
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- **INTERFACE**

- USB USB 2.0 High Speed Multi
 - *HDMI (**)*
 - Monitor-through 4:2:2 8-bit / 4:2:2 10-bit (When 4:2:2 10-bit mode is selected, it is not possible to record motion picture or still picture on the SD memory card in the camera unit.) / Auto / C4K / 4K / 1080p / Information display ON/OFF (selectable) / Automatic down-conversion (4K --> 1080p only)
 - Playback microHDMI TypeD / VIERA Link, Audio: Stereo / 59.94Hz: Auto / 4K / 1080p / 1080i / 720p / / 50.00Hz: Auto / 4K / 1080p / 1080i / 720p / 576p
 - Audio video output Monaural Type
 - Remote input ϕ 2.5mm for remote
 - External microphone input ϕ 3.5mm for external microphone
 - Headphone output ϕ 3.5mm for headphone
 - <glossary>Microphone</glossary> Stereo, Wind-cut: OFF / Low / Standard / High / AUTO
 - <glossary>Speaker</glossary> Monaural
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- **LANGUAGE**

- OSD language English, Spanish
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- **GENERAL**

- **POWER**
- **<terms>Battery</terms> Li-ion Battery Pack (7.2V, 1860mAh) (Included) / Battery Charger**
- **Battery life (CIPA standard) Approx. 530 images with H-HS12035 / Approx. 530 images with H-FS1414**
- **DIMENSIONS / WEIGHT**
- **Dimensions (W x H x D) 132.9 x 93.4 x 83.9mm / 5.23 x 3.68 x 3.30 in (excluding protrusions)**
- **Weight Approx. 560g / 19.75 oz (SD card, Battery, Body) / Approx. 480g / 16.93 oz (Body only) / Approx / 30.51 oz (SD card, Battery, H-HS12035 lens included) / Approx. 825g / 29.10 oz (SD card, Battery, H-FS14140 lens included)**
- **OPERATING ENVIRONMENT**
- **Operating temperature 0°C to 40°C (32°F to 104°F)**
- **Operating humidity 10% to 80%**
- **STANDARD ACCESSORIES**
- **<footnote>Software</footnote> PHOTOfunSTUDIO 9.5 PE (Windows XP / Vista / 7 / 8) / SILKYPIX® Developer Studio 4.1 SE (Windows XP / Vista / 7 / 8, Mac OS X v10.5 / v10.6 / v10.7 / v10.8) / LoiLoScop (trial version) (Windows XP / Vista / 7 / 8)**
- **Standard accessories Battery Charger (AC Cable included), Battery Pack, Body Cap, Hot Shoe Cover, l Connection Cable, Shoulder Strap, DVD / Lens Cap*, Lens Hood*, Lens Rear Cap* *Included with DMC-GH4A kit and DMC-GH4H kit.**
- **OPTIONAL ACCESSORIES**
- **External flash (optional) DMW-FL580L (optional), Wireless Channel: 1ch/2ch/3ch/4ch**
- **Interface unit (optional) DMW-YAGH (optional)*****
- **AC adaptor (optional) DMW-AC10 (optional)**
- **External microphone (optional) DMW-MS2 (optional), Stereo/Lens Auto/Shotgun/Super Shotgun/Manu selectable)**
- **Battery grip (optional) DMW-BGGH3 (optional)**

• Further Specifications

- **NOTE * About motion picture recording. / • Motion picture can be recorded up to 29 min 59 sec depend on the recording format and the camera's sales area. / • Use a card with SD Speed Class with "UHS-I S Class 3 (U3)" when recording motion pictures in [4K/100Mbps] [C4K/100Mbps] [FHD/100Mbps] or [FHD/200Mbps]. / • Use a card with SD Speed Class with "UHS-I Speed Class 1 (U1)" or higher when recording motion pictures in [FHD/50Mbps]. / • Use a card with SD Speed Class with "Class 4" or high when recording motion pictures in [FHD/28Mbps]. / (SD speed class is the speed standard regarding continuous writing.) / ** For [4K] or [C4K] video output, use an HDMI cable that has the HDMI logo o and that is described as "4K compatible". / *** The DMW-YAGH is not available in some countries or regions. / **** Firmware must be updated to the latest version 2.0.**

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- ○ **UPC885170185647**
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