



LUMIX G7 4K Mirrorless Interchangeable Lens Camera Kit with 14-140 mm Lens DMC-G7HK

- **TYPE**
 - Type Digital Single Lens Mirrorless camera
 - Recording media SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS-I / UHS-II 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
 - Camera effective pixels 16.00 Megapixels
 - Color filter Primary color filter
 - Dust reduction system Supersonic wave filter

- **RECORDING SYSTEM**
 - Aspect ratio 4:3, 3:2, 16:9, 1:1
 - Image quality RAW, RAW+Fine, RAW+Standard, Fine, Standard
 - MPO+Fine / MPO+Standard (with 3D lens in Micro Four Thirds system standard)
 - Color Space sRGB, AdobeRGB
 - Continuous recordable time (Motion picture) AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 140 min (LVF) with H-FS14140
 - AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 130 min (LVF) with H-FS14140
 - AVCHD [FHD/60i]: Approx. 130 min (rear monitor), 140 min (LVF) with H-FS45150
 - MP4 [4K/30p]: Approx. 100 min (rear monitor), 100 min (LVF) with H-FS1442A
 - MP4 [4K/30p]: Approx. 100 min (rear monitor), 100 min (LVF) with H-FS14140
 - MP4 [4K/30p]: Approx. 100 min (rear monitor), 110 min (LVF) with H-FS45150
 - Actual recordable time (Motion picture) AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 70 min (LVF) with H-FS1442A
 - AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 65 min (LVF) with H-FS14140
 - AVCHD [FHD/60i]: Approx. 65 min (rear monitor), 70 min (LVF) with H-FS45150
 - MP4 [4K/30p]: Approx. 50 min (rear monitor), 50 min (LVF) with H-FS1442A
 - MP4 [4K/30p]: Approx. 50 min (rear monitor), 50 min (LVF) with H-FS14140
 - MP4 [4K/30p]: Approx. 50 min (rear monitor), 55 min (LVF) with H-FS45150
 - *Recording file format*
 - Still image JPEG (DCF, Exif 2.3), RAW, MPO (When attaching 3D lens in Micro Four Thirds system standard)
 - Motion picture AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format AAC 2ch)
 - *File size(Pixels)*

- Still Image [4:3] 4592x3448(L) / 3232x2424(M) / 2272x1704(S) / 1824x1368 (When attaching 3D lens in Micro Four Third system standard)
 - [3:2] 4592x3064(L) / 3232x2160(M) / 2272x1520(S) / 1824x1216 (When attaching 3D lens in Micro Four Third system standard)
 - [16:9] 4592x2584(L) / 3840x2160(M) / 1920x1080(S) / 1824x1024 (When attaching 3D lens in Micro Four Third system standard)
 - [1:1] 3424x3424(L) / 2416x2416(M) / 1712x1712(S) / 1712x1712 (When attaching 3D lens in Micro Four Third system standard)
 - *Motion picture*
 - MP4*:NTSC area [4K] 3840x2160:4K/30p 100Mbps, 4K/24p 100Mbps
 - [Full HD] 1920x1080:FHD/60p 28Mbps, FHD/30p: 20Mbps
 - [HD] 1280x720:HD/30p 10Mbps
 - [VGA] 640x480:VGA/30p 4Mbps
 - AVCHD*:NTSC area [Full HD] 1920x1080:FHD/60p 28Mbps, 60p recording
 - [Full HD] 1920x1080:FHD/60i 17Mbps, 60i recording
 - [Full HD] 1920x1080:FHD/30p 24Mbps, 60i recording (sensor output is 30fps)
 - [Full HD] 1920x1080:FHD/24p 24Mbps
-

• WiFi FUNCTION

- WiFi IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
 - NFC No
 - QR Code Connection Yes
 - Password-less connection Yes (ON / OFF selectable)
-

• VIEWFINDER

- Type OLED Live View Finder (2,360k dots)
 - Field of view Approx. 100%
 - Magnification Approx. 1.4x / 0.7x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1
 - Eye point Approx. 17.5 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 is available)
 - AF detective range EV -4 - 18 (ISO100 equivalent)
 - Starlight AF Yes
 - 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+MF, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter
-

• EXPOSURE CONTROL

- Light metering system 1728-zone multi-pattern sensing system
- Light metering mode Multiple / Center Weighted / Spot

- Metering range EV 0 - 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 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)
- (Up to ISO6400 in motion picture recording) (ISO 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. 2 minutes), 1/4,000 - 60
- Motion picture: 1/16,000 - 1/25
- Electronic shutter: 1/16,000 - 1
- Self timer 10sec, 3 images / 2sec / 10sec
- Remote control Remote control with Bulb function by DMW-RSL1 (Optional)

● **SCENE GUIDE**

- Still image Clear Portrait / Silky Skin / Backlit Softness / Clear in Backlight / Relaxing Tone / Sweet Child's Face / Distinct Scenery / Bright Blue Sky / Romantic Sunset Glow / Vivid Sunset Glow / Glistening Water / Clear Nightscape / Cool Night Sky / Warm Glowing Nightscape / Artistic Nightscape / Glittering Illuminations / Handheld Night Shot / Clear Night Portrait / Soft Image of Flower / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome
- Motion picture Clear Portrait / Silky Skin / Backlit Softness / Clear in Backlight / Relaxing Tone / Sweet Child's Face / Distinct Scenery / Bright Blue Sky / Romantic Sunset Glow / Vivid Sunset Glow / Clear Nightscape / Cool Night Sky / Warm Glowing Nightscape / Artistic Nightscape / Handheld Night Shot / Clear Night Portrait / Appetizing Food / Cute Dessert / Freeze Animal Motion / Clear Sports Shot / Monochrome

● **PANORAMA SHOT**

- Panorama shot Yes (Standard / Wide)

● **BURST SHOOTING**

- Burst speed Mechanical shutter: H: 8 frames/sec (with AFS), 6 frames/sec (with AFC), M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
- Electronic shutter: SH: 40 frames/sec, H: 10 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
- Number of recordable images More than 13 images (when there are RAW files with the particular speed)
- More than 100 images (when there are no RAW files)
- (depending on memory card type, aspect, picture size and compression)

● **4K PHOTO MODE**

- 4K Photo mode* 4K Pre-Burst: 30 frames/sec, approx. 2 seconds
- 4K Burst: 30 frames/sec, max. 29 minutes 59 seconds
- 4K Burst (S/S): 30 frames/sec, max. 29 minutes 59 seconds
- (depending on memory card size and battery power)
- 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 (in 4K Burst (S/S) mode)

- **FLASH**
 - Built in flash type TTL Built-in-Flash, GN9.3 equivalent (ISO200 · m) / GN6.6 equivalent (ISO100 · m), Built-in Pop-up (Reference)
 - Flash Mode Auto*, Auto/Red-eye Reduction*, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off * For iA, iA+ only.
 - Synchronization speed Less than 1/160 second
 - Flash output adjustment 1/3EV step ±3EV
 - Flash synchronization 1st. Curtain Sync, 2nd Curtain Sync.
 - Synchronization for flash dimming and exposure compensation Yes

- **REAR MONITOR**
 - Type TFT LCD monitor with static touch control
 - Monitor size Free-angle 3.0-inch / 3:2 aspect / Wide viewing angle
 - Pixels Approx. 1,040k dots
 - Field of view Approx. 100%
 - Monitor adjustment Brightness, Contrast, Saturation, Red-Green, Blue-Yellow

- **LIVE VIEW**
 - Digital zoom 2x, 4x
 - Extra Tele Conversion Still image: Max. 2x
 - Motion picture: 2.4x (FHD), 3.6x (HD), 4.8x (VGA)
 - Other functions Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight display (Still image / n 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, Fn11 Exposure Comp. / Wi-Fi / Q.MENU / LVF/Monitor Switch / AF/AE I / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Focus Area Set / Zoom Control / Cursor Button Lock / Dial Open Switch / Photo Style / Filter Select / Aspect Ratio / Picture Size / Quality / AFS/AFF / Metering Mode / Burst Rate / 4K PHOTO Auto Bracket / Self Timer / Highlight Shadow / i. Dynamic / i. Resolution / HDR / Electronic Shutter / Flash Mode / Flash Adjust Ex. Tele Conv. / Digital Zoom / Stabilizer / Snap Movie / Motion Pic. Set / Picture Mode / Mic. Directivity Adjust / Silent Mode Peaking / Histogram / Guide Line / Zebra Pattern / Monochrome Live View / Rec Area / Step Zoom / Zoom Speed / Touch Screen Sensitivity / White Balance / AF Mode/MF / Restore to Default

- **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

- **MOTION PICTURE FUNCTION**
 - Cinelike gamma Cinelike D / Cinelike V
 - Flicker reduction [1/50] / [1/60] / [1/100] / [1/120] / OFF

- **PLAYBACK**
 - Playback function 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), Slideshow (All Picture Only / Video Only / 4K PHOTO / 3D / Category Selection / Favorite, duration & effect is selectable), Playback Mode (Normal / Picture / Video / 4K PHOTO / 3D Play / Category / Favorite), Location Logging, RAW Processing, Clear Retouch, Title Edit, Text Stamp, Video Divide, Time Lapse Video, Stop Motion Video, Resize, Cropping, Rotate, Rotation Display, Favorite, L-Print Set, Protect, Face Recognition Edit, Picture Sort, Creating Still Pictures from a Motion Picture

- **IMAGE PROTECTION ERASE**

- Protection Single / Multi
- Erase Single / Multi / All / Except Favorite

- **PRINT**

- Direct Print PictBridge compatible

- **INTERFACE**

- USB USB 2.0 High Speed Multi
- HDMI** microHDMI TypeD / VIERA Link
- Video: Auto / 4K / 1080p / 1080i / 720p / 480p
- Audio: Stereo
- Audio video output Monaural Type, NTSC
- *Check the website of the Panasonic sales company in your country or region for details on the products that are available in y market.
- Remote input ϕ 2.5mm for remote
- External microphone input ϕ 3.5mm for external microphone
- Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (optional).
- Microphone Stereo, Wind-cut: OFF / Low / Standard / High / AUTO
- Speaker Monaural

- **LANGUAGE**

- OSD language Japanese, English, German, French, Italian, Spanish, Portuguese, Chinese (Traditional)

- **GENERAL**

- *POWER*
- Battery Li-ion Battery Pack (7.2V, 1200mAh, 8.7Wh) (Included)
- Battery Charger
- Battery life (CIPA standard) Approx. 360 images with H-FS1442A
- Approx. 350 images with H-FS14140
- Approx. 350 images with H-FS45150
- *DIMENSIONS WEIGHT*
- Dimensions (W x H x D) 124.9 x 86.2 x 77.4 mm / 4.92 x 3.39 x 3.05 inch (excluding protrusions)
- Weight Approx. 410g / 0.90 lb (SD card, Battery, Body)
- Approx. 360g / 0.79 lb (Body only)
- Approx. 520g / 1.15 lb (SD card, Battery, H-FS1442A lens included)
- Approx. 675g / 1.49 lb (SD card, Battery, H-FS14140 lens included)
- Approx. 610g / 1.34 lb (SD card, Battery, H-FS45150 lens included)
- Approx. 720g / 1.59 lb (SD card, Battery, H-FS1442A + H-FS45150 lenses included)
- *OPERATING ENVIRONMENT*
- Operating temperature 0°C to 40°C (32°F to 104°F)
- Operating humidity 10%RH to 80%RH
- *STANDARD ACCESSORIES*
- Software PHOTOfunSTUDIO 9.7 PE
- (Windows Vista / Windows 7 / Windows 8 / Windows 8.1)
- SILKYPIX® Developer Studio 4.3 SE

- (Windows Vista / Windows 7 / Windows 8 / Windows 8.1, Mac OS X v10.5 - v10.10)
 - LoLoScope (Trial version)
 - (Windows Vista / Windows 7 / Windows 8 / Windows 8.1)
 - Standard accessories DMC-G7H Kit
 - Hot Shoe Cover, Body Cap, Battery Pack, Battery Charger, USB Connection Cable, Shoulder Strap, DVD, AC Cable*, Lens H Lens Cap, Lens Rear Cap
 - * Depends on the country or region.
-

• INTERCHANGEABLE LENS-1

- Lens Name LUMIX G VARIO 14-140mm / F3.5-5.6 ASPH. / POWER O.I.S.
 - Lens Construction 14 elements in 12 groups (3 aspherical lenses , 2 ED lens)
 - Nano Surface Coating -
 - Mount Micro Four Thirds mount
 - Optical Image Stabilizer Yes (POWER O.I.S.)
 - Focal Length f=14-140mm (35mm camera equivalent 28-280mm)
 - Aperture Type 7 diaphragm blades / Circular aperture diaphragm
 - Aperture range F3.5(Wide) - F5.6(TELE)
 - Minimum Aperture F22
 - Closest Focusing Distance 0.30m/0.98ft (at focal length 14-21mm) / 0.50m/1.64ft (at focal length 22-140mm)
 - Maximum magnification Approx. 0.25x / 0.50x (35mm camera equivalent)
 - Diagonal Angle of View 75°(Wide) to 8.8°(TELE)
 - *General*
 - Filter Size φ58mm / 2.28in
 - Max. Diameter φ67mm / 2.64in
 - Overall Length Approx. 75mm / 2.95in (from the tip of the lens to the base side of the lens mount)
 - Weight [g] Approx. 265g (excluding lens cap, lens rear cap, and lens hood)
 - Weight [oz] Approx. 9.35oz (excluding lens cap, lens rear cap, and lens hood)
-

• NOTES

- TIME LAPSE SHOT Yes
 - STOP MOTION ANIMATION Yes
 - SILENT MODE Yes
 - NOTE ** About motion picture recording / 4K Photo recording
 - - Use a card with SD Speed Class with ""Class 4"" or higher when recording motion pictures.
 - - Use a card with SD Speed Class with ""UHS-I / UHS-II UHS Speed Class 3 (U3)"" when recording motion pictures with [MI [4K] or [4K PHOTO].
 - (SD speed class is the speed standard regarding continuous writing.)
 - - Maximum time to record motion pictures continuously with [MP4] in [4K] is 29 minutes 59 seconds.
 - - You can continuously record a motion picture with its size set to [4K] in [MP4] or [4K PHOTO] without a pause even if the m picture exceeds 4GB. However, the recorded content has to be played back as multiple files.
 - - Maximum time to record motion pictures continuously with [MP4] in [FHD] [HD] [VGA] is 29 minutes 59 seconds or up to 4
 - - Maximum time to record motion pictures continuously with [AVCHD] is 29 minutes 59 seconds in Europe.
 - ** For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible".
-

- ◦ UPC885170254091
-