



LUMIX GX9 Mirrorless Camera Body, 20.3 Megapixels, In-Body Image Stabilizer, plus 12-60mm F3.5-5.6 Kit Lens - DC-GX9MS DC-GX9MS

- **TYPE**

- Type Digital Single Lens Mirrorless camera
 - Recording media SD Memory Card, SDHC Memory Card, SDXC Memory Card
 - Recording media (Compatible with UHS-I 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
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- **IMAGE SENSOR**

- Type Live MOS Sensor
 - Total pixels 21.77 Megapixels
 - Camera effective pixels 20.30 Megapixels
 - Color filter Primary color filter
 - Dust reduction system Supersonic wave filter
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- **RECORDING SYSTEM**

- Aspect ratio 4:3, 3:2, 16:9, 1:1
- Image quality RAW, RAW+Fine, RAW+Standard, Fine, Standard
- Color Space sRGB, AdobeRGB
- Continuous recordable time (Motion picture)** AVCHD [FHD/60p]
- Continuous recordable time (Motion picture)** Approx. 90 min (rear monitor), 80 min (LVF) with H-FS1: H-FS12060
- Continuous recordable time (Motion picture)** AVCHD [FHD/60i]
- Continuous recordable time (Motion picture)** Approx. 90 min (rear monitor), 80 min (LVF) with H-FS1: H-FS12060
- Continuous recordable time (Motion picture)** MP4 [4K/30p]
- Continuous recordable time (Motion picture)** Approx. 70 min (rear monitor), 70 min (LVF) with H-FS1: H-FS12060

- Actual recordable time (Motion picture)** AVCHD [FHD/60p]
- Actual recordable time (Motion picture)** Approx. 45 min (rear monitor), 40 min (LVF) with H-FS12032 FS12060
- Actual recordable time (Motion picture)** AVCHD [FHD/60i]
- Actual recordable time (Motion picture)** Approx. 45 min (rear monitor), 40 min (LVF) with H-FS12032 FS12060
- Actual recordable time (Motion picture)** MP4 [4K/30p]
- Actual recordable time (Motion picture)** Approx. 35 min (rear monitor), 35 min (LVF) with H-FS12032 FS12060
- *Recording file format*
- Still image JPEG (DCF, Exif 2.31), RAW
- 4K PHOTO MP4
- Motion picture AVCHD Progressive, AVCHD (Audio format: Dolby Audio 2ch)
- Motion picture MP4: H.264/MPEG-4 AVC (Audio format: AAC (2ch))
- *File size(Pixels) -Still Image*
- 4:03 5184x3888(L) / 3712x2784(M) / 2624x1968(S) / 3328x2496(4K PHOTO)
- 3:02 5184x3456(L) / 3712x2480(M) / 2624x1752(S) / 3504x2336(4K PHOTO)
- 16:09 5184x2920(L) / 3840x2160(M) / 1920x1080(S) / 3840x2160(4K PHOTO)
- 1:01 3888x3888(L) / 2784x2784(M) / 1968x1968(S) / 2880x2880(4K PHOTO)
- *File size (Pixels) -Motion picture***
- MP4**[4K] 3840x2160 4K/30p: 100Mbps
- MP4**[4K] 3840x2160 4K/24p: 100Mbps
- MP4**[Full HD] 1920x1080 FHD/60p: 28Mbps
- MP4**[Full HD] 1920x1080 FHD/30p: 20Mbps
- MP4**[HD] 1280x720 HD/30p: 10Mbps
- AVCHD**[Full HD] 1920x1080 FHD/60p: 28Mbps, 60p recording
- AVCHD**[Full HD] 1920x1080 FHD/60i: 17Mbps, 60i recording
- AVCHD**[Full HD] 1920x1080 FHD/30p: 24Mbps, 60i recording (sensor output is 30fps)
- AVCHD**[Full HD] 1920x1080 FHD/24p: 24Mbps, 24p recording
- *High speed video *When Creative Video Mode is selected.*
- MP4**[4K] 3840x2160 N/A
- MP4**[Full HD] 1920x1080 N/A

● WIRELESS

- WiFi IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
 - Bluetooth Bluetooth® v4.2 (Bluetooth Low Energy (BLE))
 - QR code connection / Password-less connection Yes / Yes (ON / OFF selectable)
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● VIEWFINDER

- Type LCD Live View Finder (2,760k dots equivalent), Tilttable

- Field of view Approx. 100%
 - Magnification Approx. 1.39x / 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 - +3.0 (dpt)
 - Eye sensor Yes
 - Display speed N/A
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• FOCUS

- Type Contrast AF system
 - DFD technology Yes
 - Post Focus Yes
 - Focus Stacking Yes
 - Focus mode AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF
 - AF mode Face/Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint
 - AF mode (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)
 - AF custom setting N/A
 - 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
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• 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) Still image: Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)
 - ISO sensitivity (Standard Output Sensitivity) Creative Video Mode: Auto / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 (Changeable to 1/3 EV step)
 - Exposure compensation 1/3 EV step, ±5EV (when set with the menu) (±3 EV for motion picture), ±3EV (when set with the dial)
 - AE lock Yes (AF/AE LOCK button)
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• WHITE BALANCE

- White balance AWB / AWBc / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4
- White balance adjustment Blue/Amber bias, Magenta/Green bias

- Color temperature setting 2500-10000K in 100K

• SHUTTER

- Type Focal-plane shutter
- Shutter speed Still image: Time* (Max. 30 minutes), 1/4,000 - 60 *Bulb mode is possible with the "Image Area Remote Control" remote control via Bluetooth.
- Shutter speed Electronic shutter: 1/16,000 - 1
- Shutter speed Motion picture: 1/16,000 - 1/25
- Self timer 10sec, 3 images / 2sec / 10sec

• BRACKET

- AE bracket 3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single/burst
- Aperture Bracket 3, 5 or all positions in 1 EV step
- Focus Bracket 1 to 999 images, focus steps can be set in 10 levels
- White balance bracket 3 images in blue/amber axis or in magenta/green axis

• PANORAMA SHOT

- Panorama Shot Yes (Standard / Wide)

• BURST SHOOTING

- Burst speed [Mechanical shutter]
- Burst speed AFS/MF: H: 9 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-FS12032 is used.
- Burst speed AFF/AFC: H: 6 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View) *When H-FS12032 is used.
- Burst speed [Electronic shutter]
- Burst speed AFS/MF: H: 9 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
- Burst speed AFF/AFC: H: 6 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)
- Number of recordable images More than 30 images (when there are RAW files with the particular speed)
- Number of recordable images More than 100 images (when there are no RAW files)
- Number of recordable images (depending on memory card type, aspect, picture size and compression)

• 4K PHOTO**

- Burst speed 30 frames/sec
- Exif information Yes (Each JPEG image cropped out of the 4K burst file complies with EXIF.)
- Marking function Auto / Face Priority / Motion Priority / Off (Manual) (in 4K Burst mode and 4K Burst (S/S) mode)
- Loop rec function Yes (in 4K Burst (S/S) mode)

• TIME LAPSE SHOT

- Time Lapse Shot Yes

• FLASH

- Flash type TTL Built-in-Flash, GN6.0 equivalent (ISO200 · m) / GN4.2 equivalent (ISO100 · m) (Refer to the user manual for details)
- Built-in Pop-up

- 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 1/200 second
- Flash output adjustment 1/3EV step ±3EV
- Flash synchronization 1st. Curtain Sync., 2nd Curtain Sync.
- Synchronization for flash dimming and exposure compensation Yes
- Wireless control Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel 1ch/2ch/3ch/4ch

• REAR MONITOR

- Type TFT LCD monitor with static touch control, Tilttable monitor
- Monitor size 3.0-inch (7.5cm) / 3:2 aspect
- Pixels Approx. 1,240k dots
- Field of view Approx. 100%
- Monitor adjustment Brightness, Contrast, Saturation, Red Tint, Blue Tint

• LIVE VIEW

- Digital zoom 2x, 4x
- Extra Tele Conversion Still image: Max. 2x
- Extra Tele Conversion Motion picture: 2.7x (FHD), 4.0x (HD)
- Other functions Level Gauge, Real-time Histogram, Guide Lines (3 patterns), Center Marker, Highlight D (Still image / motion picture), Zebra Pattern (Still image / motion picture)

• FUNCTION BUTTON

- REC 4K Photo Mode / Post Focus / Wi-Fi / Q.MENU / Video Record / LVF/Monitor Switch / LVF/Monitor Disp. Style / AF/AE LOCK / AF-ON / Preview / One Push AE / Touch AE / Level Gauge / Focus Area Set / Zoom Control / Operation Lock / Dial Operation Switch / Photo Style / Filter Select / Aspect Ratio / Picture Quality / AFS/AFF / Metering Mode / Bracket / Highlight Shadow / i. Dynamic / i. Resolution / Min. Shutter Speed / HDR / Shutter Type / Flash Mode / Flash Adjust. / Wireless Flash Setup / Ex. Tele Conv. / Digital Z / Stabilizer / I.S. Lock (Video) / 4K Live Cropping / Snap Movie / Motion Pic. Set / Picture Mode in Rec. / Rec Level Adj. / Silent Mode / Peaking / Histogram / Guide Line / Zebra Pattern / Monochrome Live View Constant Preview / Live View Boost / Rec Area / Step Zoom / Zoom Speed / Sensitivity / White Balance / Auto Mode/MF / Drive Mode / Rec/Playback Switch / Off / Restore to Default
- PLAY Wi-Fi / LVF/Monitor Switch / Rec/Playback Switch / 4K PHOTO Play / Delete Single / Protect / Rating 2, 3, 4, 5 / RAW Processing / 4K PHOTO Bulk Saving / Off / Restore to Default

• PLAYBACK

- Playback function 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. Slideshow (All / Picture Only / Video Only, duration & effect is selectable), Playback Mode (Normal / Picture Only / Video Only), Protect, Rating, Title Edit, Face Recognition Edit, RAW Processing, 4K PHOTO Bulk Saving, Light Composition, Sequence Composition, Clear Retouch, Text Stamp, Resize, Cropping, Rotate, Video Divide, Time Lapse Video, Stop Motion Video, Rotation Display, Picture Sort, Delete Confirmation, Creating Still Pictures from a Motion Picture

• IMAGE PROTECTION / ERASE

- Protection Single / Multi or Cancel
- Delete Single / Multi / All / Except Rating

• PRINT

- Direct Print PictBridge compatible

- **INTERFACE**

- **USB** USB 2.0 Micro-B
- **HDMI***** microHDMI TypeD / VIERA Link
- **HDMI*** Video:** Auto / 4K / 1080p / 1080i / 720p / 480p
- **HDMI*** Audio:** Stereo
- **Audio video output** No
- **Microphone** Stereo, Wind Noise Canceller: OFF / Standard / High
- **Speaker** Monaural
- **SD card slot** N/A

- **LANGUAGE**

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

- **GENERAL**

- **POWER**
- **Battery** Li-ion Battery Pack (7.2V, 1025mAh, 7.4Wh) (Included)
- **Battery** USB power charging
- **Battery life** (CIPA standard) N/A
- **DIMENSIONS / WEIGHT**
- **Dimensions (W x H x D)** 124 x 72.1 x 46.8 mm / 4.88 x 2.83 x 1.84 inch (excluding protrusions)
- **Weight** Approx. 450g / 0.99 lb (SD card, Battery, Body)
- **Weight** Approx. 407g / 0.90 lb (Body only)
- **Weight** Approx. 517g / 1.14 lb (SD card, Battery, H-FS12032 lens included)
- **Weight** Approx. 660g / 1.46 lb (SD card, Battery, H-FS12060 lens 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** • The software to edit and playback images on computer is not bundled with this camera. To do this, **PHOTOfunSTUDIO** is available for download at Panasonic website using computer connected to the Internet.
- **Software** http://panasonic.jp/support/global/cs/soft/download/d_pfs10ac.html (For Windows)
- **Software** • The software to process RAW file on computer is not bundled with this camera. To do this, **SILKYPIX Developer Studio** is available for download at Ichikawa Soft Laboratory's website using computer connected to the Internet.
- **Software** <http://www.isl.co.jp/SILKYPIX/english/p/> (For Windows / Mac)
- **Standard accessories** DC-GX9 Kit
- **Standard accessories** Battery Pack, AC Adaptor, USB Connection Cable, Hot Shoe Cover, Shoulder Strap, Body Cap
- **Standard accessories** • The DC-GX9 Operating Instructions for advanced features is available for download at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

- **INTERCHANGEABLE LENS-1**

- **Lens Name LUMIX G VARIO 12-60mm / F3.5-5.6 ASPH. / POWER O.I.S.**
- **Lens Construction 11 elements in 9 groups (3 aspherical lenses, 1 ED lens)**
- **Nano Surface Coating -**
- **Mount Micro Four Thirds mount**
- **Optical Image Stabilizer Yes (POWER O.I.S.)**
- **Focal Length f=12-60mm (35mm camera equivalent 24-120mm)**
- **Aperture Type 7 diaphragm blades / Circular aperture diaphragm**
- **Aperture range N/A**
- **Aperture N/A**
- **Maximum Aperture F3.5 (Wide) - F5.6 (Tele)**
- **Minimum Aperture F22**
- **Closest Focusing Distance 0.20m / 0.66ft (Wide), 0.25m / 0.82ft (Tele)**
- **Maximum magnification Approx. 0.27x / 0.54x (35mm camera equivalent)**
- **Diagonal Angle of View 84.05°(Wide) to 20.44°(Tele)**
- **Weatherproof N/A**
- ***General***
- **Filter Size ϕ 58mm / 2.3inch**
- **Max. Diameter ϕ 66.0mm / 2.6inch**
- **Overall Length Approx. 71mm (from the tip of the lens to the base side of the lens mount)**
- **Weight [g] Approx. 210g (excluding lens cap, lens rear cap and lens hood)**
- **Weight [oz] Approx. 7.41oz (excluding lens cap, lens rear cap and lens hood)**
- **Others Lens cap, Lens rear cap, Lens hood, Lens storage bag**

- **INTERCHANGEABLE LENS-2**

- **Lens Name N/A**
- **Lens Construction N/A**
- **Nano Surface Coating N/A**
- **Mount N/A**
- **Optical Image Stabilizer N/A**
- **Focal Length N/A**
- **Aperture Type N/A**
- **Aperture range N/A**
- **Aperture N/A**

- Maximum Aperture N/A
- Minimum Aperture N/A
- Closest Focusing Distance N/A
- Maximum magnification N/A
- Diagonal Angle of View N/A
- Weatherproof N/A
- *General*
- Filter Size N/A
- Max. Diameter N/A
- Overall Length N/A
- Weight [g] N/A
- Weight [oz] N/A
- Others N/A

• NOTES

- IMAGE STABILIZATION SYSTEM Image sensor shift type (5-axis / 4-stop*), Dual I.S. compatible
- IMAGE STABILIZATION SYSTEM *Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm (35mm camera equivalent f=120mm), when H-FS12060 is used.]
- STOP MOTION ANIMATION Yes
- SILENT MODE Yes
- DIRECTION DETECTION FUNCTION Yes
- PHOTO STYLE Standard / Vivid / Natural / Monochrome / L. Monochrome / L. Monochrome D / Scenery / Portrait / Custom
- CREATIVE CONTROL 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*
- CREATIVE CONTROL *For photos only.
- NOTE ** About motion picture recording / 4K PHOTO recording
- NOTE - Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures in [AVCHD] or [MP4 (under 28Mbps)].
- NOTE - Use a card with SD Speed Class with "UHS-I UHS Speed Class 3 (U3)" when recording motion pictures with [MP4] in [4K] or [4K PHOTO].
- NOTE (SD speed class is the speed standard regarding continuous writing.)
- NOTE - Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds or the file size exceeds 4GB with [MP4] in [FHD] [HD].
- NOTE - Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds with [MP4] in [4K].
- NOTE - MP4 motion pictures with [MP4] in [4K]:
- NOTE - When using a SDHC memory card: You can continue recording without interruption even if the file size exceeds 4 GB, but the motion picture file will be divided and recorded/played back separately.
- NOTE - When using a SDXC memory card: You can record a motion picture in a single file.

- **NOTE - MP4 motion pictures with [MP4] in [FHD] [HD]:**
 - **NOTE - You can continue recording without interruption even if the file size exceeds 4 GB or 30 minutes, | the motion picture file will be divided and recorded/played back separately.**
 - **NOTE - When the ambient temperature is high or continuous recording is performed, the camera may stop recording to protect itself. Wait until the camera cools down.**
 - **NOTE *** For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible".**
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- ○ **UPC885170334236**
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