



Clifton Cameras Product Specification

Panasonic Lumix GX9 Digital Camera with 12-32mm Lens Kit Full Spec

TYPE	Type	Digital Single Lens Mirrorless camera		
Recording media	SD Memory Card, SDHC Memory Card, SDXC Memory Card			
(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			
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			
IMAGE STABILIZATION SYSTEM	Image sensor shift type (5-axis / 4-stop*), Dual I.S. compatible			
*Based on the CIPA standard [Yaw/Pitch direction: focusing distance f=60mm (35mm camera equivalent f=120mm), when H-FS12060 is used.]				
RECORDING SYSTEM	Recording file format	Still image	JPEG (DCF, Exif 2.31), RAW	
4K PHOTO	MP4			
Motion picture	AVCHD Progressive, AVCHD (Audio format: Dolby Audio 2ch)			
MP4: H.264/MPEG-4 AVC (Audio format: AAC (2ch))				
Aspect ratio	4:3, 3:2, 16:9, 1:1			
Image quality	RAW, RAW+Fine, RAW+Standard, Fine, Standard			
Color space	sRGB, AdobeRGB			
File size (Pixels) PHOTO)	Still image	[4:3] 5184x3888(L) / 3712x2784(M) / 2624x1968(S) / 3328x2496(4K)		



[3:2] 5184x3456(L) / 3712x2480(M) / 2624x1752(S) / 3504x2336(4K PHOTO)

[16:9] 5184x2920(L) / 3840x2160(M) / 1920x1080(S) / 3840x2160(4K PHOTO)

[1:1] 3888x3888(L) / 2784x2784(M) / 1968x1968(S) / 2880x2880(4K PHOTO)

Motion picture** MP4** [4K] 3840x2160 4K/30p: 100Mbps

4K/24p: 100Mbps

[Full HD] 1920x1080 FHD/60p: 28Mbps

FHD/30p: 20Mbps

[HD] 1280x720 HD/30p: 10Mbps

AVCHD** [Full HD] 1920x1080 FHD/60p: 28Mbps, 60p recording

FHD/60i: 17Mbps, 60i recording

FHD/30p: 24Mbps, 60i recording (sensor output is 30fps)

FHD/24p: 24Mbps, 24p recording

Continuous recordable time (Motion picture)** AVCHD [FHD/60p]

Approx. 90 min (rear monitor), 80 min (LVF) with H-FS12032 / H-FS12060

AVCHD [FHD/60i]

Approx. 90 min (rear monitor), 80 min (LVF) with H-FS12032 / H-FS12060

MP4 [4K/30p]

Approx. 70 min (rear monitor), 70 min (LVF) with H-FS12032 / H-FS12060

Actual recordable time (Motion picture)** AVCHD [FHD/60p]

Approx. 45 min (rear monitor), 40 min (LVF) with H-FS12032 / H-FS12060

AVCHD [FHD/60i]

Approx. 45 min (rear monitor), 40 min (LVF) with H-FS12032 / H-FS12060

MP4 [4K/30p]

Approx. 35 min (rear monitor), 35 min (LVF) with H-FS12032 / H-FS12060

WIRELESS Wi-Fi IEEE 802.11b/g/n, 2412 MHz - 2462 MHz (1-11 ch), Wi-Fi / WPA / WPA2,
Infrastructure mode



QR code connection / Password-less connection Yes / Yes (ON / OFF selectable)

Bluetooth Bluetooth® v4.2 (Bluetooth Low Energy (BLE))

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

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

(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, 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) Still image: Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)

Creative Video Mode: Auto / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 (Changeable to 1/3 EV step)

Exposure compensation 1/3 EV step, ± 5 EV (when set with the menu) (± 3 EV for motion picture), ± 3 EV (when set with the dial)

AE lock Yes (AF/AE LOCK button)

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 App" remote control via Bluetooth.

Electronic shutter: 1/16,000 - 1

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 Yes (Standard / Wide)

BURST SHOOTINGBurst speed [Mechanical shutter]

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.

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.

[Electronic shutter]

AFS/MF: H: 9 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)

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)

More than 100 images (when there are no RAW files)

(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 Yes

STOP MOTION ANIMATION Yes

FLASH Flash type TTL Built-in-Flash, GN6.0 equivalent (ISO200 □m) / GN4.2 equivalent (ISO100 □m) (Reference), 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

SILENT MODE Yes

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



Motion picture: 2.7x (FHD), 4.0x (HD)

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 Yes

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 Size / Quality / AFS/AFF / Metering Mode / Bracket / Highlight Shadow / i. Dynamic / i. Resolution / Min. Shtr Speed / HDR / Shutter Type / Flash Mode / Flash Adjust. / Wireless Flash Setup / Ex. Tele Conv. / Digital Zoom / Stabilizer / I.S. Lock (Video) / 4K Live Cropping / Snap Movie / Motion Pic. Set / Picture Mode in Rec. / Sound 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 / AF 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 1, 2, 3, 4, 5 / RAW Processing / 4K PHOTO Bulk Saving / Off / Restore to Default

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*

*For photos only.

PLAYBACK 30-thumbnail display, 12-thumbnail display, Calendar display, Zoomed playback (Max. 16x), 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 / DELETE ProtectionSingle / 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

Video: Auto / 4K / 1080p / 1080i / 720p / 480p

Audio: Stereo

Audio video output No

Microphone Stereo, Wind Noise Cancellor: OFF / Standard / High



Speaker Monaural

LANGUAGE OSD language Please refer to "OSD" Sheet

POWER Battery Li-ion Battery Pack (7.2V, 1025mAh, 7.4Wh) (Included)

USB power charging

Battery life (CIPA standard) Approx. 260 images (rear monitor), 250 images (LVF), 900 images (Power Save LVF mode*) with H-FS12032 / H-FS12060

*Under the test conditions specified by Panasonic based on CIPA standard. When the time to get in the sleep mode is set to 1 sec.

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. 407g / 0.90 lb (SD card, Battery, Body)

Approx. 450g / 0.99 lb (Body only)

Approx. 517g / 1.14 lb (SD card, Battery, H-FS12032 lens included)

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.

http://panasonic.jp/support/global/cs/soft/download/d_pfs10ae.html (For Windows)

□ 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.

<http://www.isl.co.jp/SILKYPIX/english/p/> (For Windows / Mac)

Standard accessories DC-GX9 Kit

Battery Pack, AC Adaptor, USB Connection Cable, Hot Shoe Cover, Shoulder Strap, Body Cap

DC-GX9K Kit

Battery Pack, AC Adaptor, USB Connection Cable, Hot Shoe Cover, Shoulder Strap, Lens Cap



DC-GX9M Kit

Battery Pack, AC Adaptor, USB Connection Cable, Hot Shoe Cover, Shoulder Strap, Body Cap, Lens Cap, Lens Hood, Lens Rear Cap

□ The DC-GX9 Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.