

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	No

LATITUDE

12 stops (V-Log L)

IMAGE STABILIZATION SYSTEM

5-axis HYBRID I.S. *For video recording only. 4-axis compensation works in 4K video recording.

RECORDING SYSTEM

Recording file format	Still image	JPEG (DCF, Exif 2.31), RAW
	4K PHOTO**	MP4 (H.264/MPEG-4 AVC, Audio format: AAC (2ch)) Extracted still images: JPEG (DCF, Exif 2.31)
	Motion picture	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)	Still image	[4:3] 5184x3888(L) / 3712x2784(M) / 2624x1968(S) / 3328x2496(4K PHOTO) [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
	Motion picture** MP4** [Full HD] 1920x1080	FHD/60p: 28Mbps FHD/30p: 20Mbps FHD/24p: 24Mbps

Motion picture MP4** [HD]**
1280x720

HD/30p: 10Mbps

Slow & Quick MP4** [Full HD]**
1920x1080

60p (1/2 / 2x / 4x / 8x)
30p (1/4 / 1/2 / 2x / 4x / 8x)

VIEWFINDER

Type	OLED Live View Finder
Pixels	Approx. 2,360k dots
Field of view / Magnification	Approx. 100% / Approx. 1.48x / 0.74x (35mm camera equivalent) with 50 mm lens at infinity; -1.0 m-1, when the aspect ratio is set to 4:3
Eye point / Diopter adjustment	Approx. 20 mm at infinity; -1.0 m-1 / -4.0 - +4.0 (dpt)
Eye sensor	Yes

REAR MONITOR

Type	TFT LCD monitor with static touch control
Monitor size	Free-angle, 3.0-inch (7.5cm), 3:2 aspect
Pixels	Approx. 1,840k dots
Field of view	Approx. 100%

FOCUS

Type	Contrast AF system
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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) (Scalable AF frame size and flexible AF position)
AF detective range	EV -4 - 20 (F2.0, ISO100 equivalent, AFS)
Starlight AF	Yes
AF assist lamp	Yes
AF lock	Set the Fn button in custom menu to AF lock
Post Focus / Focus Stacking	Yes / Yes
Others	AF-ON, Shutter AF, Half Press Release, Focus/Shutter Priority, Quick AF, Continuous AF (during motion picture recording), Eye Sensor AF, AF+MF, MF Guide, MF Assist, Touch MF Assist, Focus Peaking, Touch AF/AE Function, Touch Pad AF, Touch Shutter, Focus Switching for Vert/Hor, Focus Ring Lock, Loop Movement Focus Frame, Lens Focus Resume

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)
Mode dial	Program AE (P) / Aperture Priority AE (A) / Shutter Priority AE (S) / Manual Exposure (M) / Creative Video (P/A/S/M)* / S&Q / Custom / Scene

Guide / Creative Control / Intelligent Auto / Intelligent Auto Plus

*The same exposure operations as P/A/S/M mode is available.

ISO sensitivity (Standard output sensitivity)

Still image: Auto / i.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 (± 3 EV for motion picture)

AE lock

Set the Fn button in custom menu to AE lock

WHITE BALANCE

White balance

AWB / AWBc / AWBw / 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

Electronically-control focal-plane shutter

Shutter speed

Still image: Time (Max. 60 second), 1/16,000 - 60

Motion picture: 1/16,000 - 1/25

Creative Video M mode / MF mode: 1/16,000 - 1/2

Live View Composite

1/2 - 60

Self timer

10sec, 3 images / 2sec / 10sec

Silent mode / Shutter type

Yes / Yes (Auto / Electronic front curtain / Electronic)

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, color temperature setting

BURST SHOOTING

Burst speed	<p>[Electronic first curtain shutter]</p> <p>AFS/MF: H: 6 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)</p> <p>AFF/AFC: H: 5 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)</p> <p>[Electronic shutter]</p> <p>AFS/MF: H: 10 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)</p> <p>AFF/AFC: H: 10 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)</p>
Number of recordable images	<p>RAW / RAW+JPEG: More than 20 images</p> <p>JPEG: More than 480 images (When using a card with SD Speed Class with "UHS-I UHS Speed Class 3 (U3)".)</p> <p>* Until the burst shooting speed slows. When recording is performed under the test conditions specified by Panasonic.</p>

4K PHOTO**

Burst speed	30 frames/sec
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Exif information	Yes (Each JPEG image cropped out of the 4K burst file complies with EXIF.)
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TIME LAPSE SHOT

Yes

STOP MOTION ANIMATION

Yes

FLASH

Flash type	TTL Built-in-Flash, GN5.1 equivalent (ISO200 · m) / GN3.6 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 1/50 second
Flash output adjustment	1/3EV step ±2EV
Flash synchronization	1st. Curtain Sync., 2nd Curtain Sync.
Wireless control	Yes (When using DMW-FL200L / FL360L / FL580L (sold separately)), Wireless Channel: 1ch/2ch/3ch/4ch

LIVE VIEW

Digital zoom	2x
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Extra Tele Conversion

Still image: 1.4x (EX M), 2.0x (EX S)

Motion picture: ON / OFF

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), Frame Maker, REC Frame Indicator, Live View Boost

SELF SHOT

Self Shot mode

Yes (Still image / motion picture)

Shutter

Shutter Button, Touch, Face Shutter, Buddy Shutter

Effect

Soft Skin: 10 levels, Filter Select: Expressive / Retro / High Key / Monochrome / Toy Effect, Background Control: Defocus / Clear, Slimming Mode: 10 levels

VERTICAL POSITION INFORMATION

Still image / Motion picture (ON/OFF)

FUNCTION BUTTON

REC

4K PHOTO / Exposure Comp. / 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 / Focus Ring Lock / Dial Operation Switch / Photo Style / Filter Effect / Aspect Ratio / Picture Size / Quality / Metering Mode / Burst Rate / Self Timer / Live View Composite / Bracket / Focus Mode / 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 / E-Stabilization (Video) / 4K Live Cropping / Snap Movie / Motion Pic. Set / S&Q Effect / Picture Mode in

	Rec. / Sound Rec Level Adj. / Sound Rec Level Disp. / Built-in Mic / Mic. Directivity Adjust / Silent Mode / Peaking / Histogram / Guide Line / Frame Maker / 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 / Send Image (Smartphone) / 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 / Scenery / Portrait / Monochrome / L. Monochrome / L. Monochrome D / Cinelike D / Cinelike V / V-Log L / Custom

FILTER

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.

INTERFACE

USB	USB Type-C (USB 2.0 High-Speed)
HDMI***	microHDMI TypeD / VIERA Link Video: Auto / 4K/25p / 1080p / 1080i / 720p / 576p Audio: Stereo
External microphone input	φ3.5mm Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).

Microphone	Stereo, Wind Noise Canceller: OFF / Low* / Standard / High *When attaching DMW-MS2 (sold separately).
Speaker	Monaural

WIRELESS

Wi-Fi	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))

POWER

Battery	Li-ion Battery Pack (7.2V, 1025mAh, 7.4Wh) (Included) USB power charging
Battery life (CIPA standard)	Approx. 270 images (rear monitor), 280 images (LVF), 1,050 images (Power Save LVF mode*) with H-FS12032 *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.
Continuous recordable time (Motion picture)**	4K/30p: Approx. 80 min with H-FS12032
Actual recordable time (Motion picture)**	4K/30p: Approx. 40 min with H-FS12032

DIMENSIONS / WEIGHT

Dimensions (W x H x D)	Approx. 115.6 x 83.1 x 54.2 mm / 4.55 x 3.27 x 2.13 inch (excluding protrusions)
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Weight	Approx. 346g / 0.76 lb (SD card, Battery, Body)
	Approx. 304g / 0.67 lb (Body only)
	Approx. 416g / 0.92 lb (SD card, Battery, H-FS12032 lens included)
	Approx. 524g / 1.16 lb (SD card, Battery, H-FS12032 lens + tripod grip DMW-SHGR2 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	<ul style="list-style-type: none"> • The software to edit and playback images on computer is not bundled with this camera. To do this, PHOTOfunSTUDIO 10.0AE is available for download at Panasonic website using computer connected to the Internet. https://panasonic.jp/support/software/photofun/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	<p>DC-G100DK Kit</p> <p>Hot Shoe Cover, Battery Pack, AC Adaptor, USB Connection Cable (A-C), Shoulder Strap, Lens Cap</p> <ul style="list-style-type: none"> • Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

Note

**** About motion picture recording / 4K PHOTO recording**

- Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures (under 28Mbps).
- Use an SD memory card with SD Speed Class with "UHS-I UHS Speed Class 3 (U3)" when recording motion pictures in [4K] [Slow & Quick] or [4K PHOTO].

(SD speed class is the speed standard regarding continuous writing.)

- Recording stops when the continuous recording time exceeds 10 minutes in [4K] [Slow].
- Recording stops when the continuous recording time exceeds 20 minutes in [FHD/60p].
- Recording stops when the continuous recording time exceeds 29 minutes and 50 seconds in [Quick].
- Recording stops when the continuous recording time exceeds 29 minutes and 59 seconds in [FHD/30p] [FHD/24p] [HD].
- MP4 motion pictures in [4K]:
 - When using an 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.
 - When using an SDXC memory card: You can record a motion picture in a single file.
- MP4 motion pictures in [FHD/30p] [FHD/24p] [HD]:
 - 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.
 - When the ambient temperature is high or continuous recording is performed, the camera may stop the recording to protect itself. Wait until the camera cools down.

***** For [4K] video output, use an HDMI cable that has the HDMI logo on it, and that is described as "4K compatible".**