

Specs



4K Image Quality with Bright F 1.8 Lens

Wide 25mm and Optical 24x Zoom Lens

4K High-Precision AF / 5-Axis HYBRID O.I.S.

In-camera Editing for 2K Images

USB Type-C Terminal

Size and Weight

Height	Width	Depth	Weight
77mm	68mm	141mm	431g

All values are approximate.
Weight without battery and SD card.

SENSOR SECTION

Image Sensor	1/2.5-type BSI MOS Sensor
Total Pixels	8.57 megapixels

Effective Pixels	Motion Image	4K: 8.29 megapixels [16:9], Full-HD: 6.17 megapixels [16:9]
	Still Image	8.29 megapixels [16:9] 6.22 megapixels [4:3]

LENS SECTION

F Value	F1.8 (WIDE) / F4.0 (TELE)	
Optical Zoom	24x	
Focal Length	4.12 – 98.9 mm (Optical Zoom: 24x)	
35 mm Film Camera Equivalent	Motion Image (16:9)	4K25p, 24p/Full-HD 24p: 25 – 600 mm, Full-HD 50p/50i/25p: 28.9 – 693.7 mm
	Still Image	25.0mm – 600mm (16: 9) / 30.6mm – 734.4mm (4: 3)
Filter Diameter	62 mm	
Lens Brand	Panasonic Lens	

CAMERA SECTION

Standard Illumination	1400 lx	
Minimum Illumination	1.5 lx (Scene Mode Low Light 1/25), 0.5 lx (Night Mode (Color))	
Focus	Auto / Manual	
Zoom	Intelligent Zoom OFF	24x
	Intelligent Zoom ON	4K: 32x, Full-HD: 48x
	Digital Zoom	70x / 1500x (The maximum value of zoom magnification can be set in two patterns)
White Balance	Auto / White Set / Sunny / Cloudy / Indoor1 / Indoor2	
Shutter Speed	Motion Image	Auto Slow Shutter ON : 1/25 – 1/8000 (50p / 50i / 25p), 1/24 – 1/8000 (24p) Auto Slow Shutter OFF: 1/50 – 1/8000 (50p / 50i / 25p), 1/48 – 1/8000 (24p)
	Still Image	1/2 – 1/2000

Iris	Auto / Manual
Image Stabilizer	5-axis HYBRID O.I.S.+ with Active Mode, Ball O.I.S.
Active Contrast	Yes
HDR Movie (Except 4K Mode)	Yes
Creative Control (Except 4K Mode)	Miniature Effect, Silent Movie, 8mm Movie, Time Lapse Rec

RECORDING SECTION

Recording Media	SD/SDHC/SDXC Memory Card	
Recording Format	[AVCHD] AVCHD Progressive [MP4] MP4	
Compression Method	MPEG-4 AVC/H.264	
Recording/ Playback Mode	AVCHD	1080/50p (28Mbps / VBR), (1920 x 1080/50p) PH (24Mbps / VBR), (1920 x 1080/50i) HA (17Mbps / VBR), (1920 x 1080/50i) HG (13Mbps / VBR), (1920 x 1080/50i) HE (5Mbps / VBR), (1920 x 1080/50i)
	MP4	2160/25p(72M) (72Mbps / VBR), (3840 x 2160) 2160/24p(72M) (72Mbps / VBR), (3840 x 2160) 1080/50p(50M) (50Mbps / VBR), (1920 x 1080) 1080/50p(28M) (28Mbps / VBR), (1920 x 1080) 1080/24p(50M) (50Mbps / VBR), (1920 x 1080) 720/25p(9M) (9Mbps / VBR), (1280 x 720)
	iFrame	—
Actual Recordable Time with Supplied Battery	Approx. 50 min (4K MP4) Approx. 55 min (50p mode) Approx. 1 h 0 min (PH mode) Approx. 1 h 0 min (HA mode) Approx. 1 h 0 min (HG mode) Approx. 1 h 0 min (HE mode) Approx. 50 min (2160p/24p) Approx. 55 min (1080p/24p) Approx. 55 min (MP4 50M) Approx. 55 min (MP4 28M) Approx. 1 h 10 min (MP4 720p)	
Thumbnail Display	6 thumbnails/page, 1 thumbnail/page	

Audio Recording System	AVCHD: Dolby Audio (5.1ch / 2ch) MP4: AAC (2ch)
Microphone	5.1ch Surround, Zoom, Focus and Stereo Microphone
Speaker	Dynamic type

STILL IMAGE SECTION

Recording Format	JPEG (DCF/Exif2.2)
Recording Image Size	Still Image [16:9] 25.9megapixels (6784 x 3816), 14 megapixels (4992 x 2808), 2.1 megapixels (1920 x 1080) [4:3] 20.4 megapixels (5216 x 3912), 10.9 megapixels (3808 x 2856), 0.3 megapixels (640 x 480) Simultaneous Recording Full-HD only: [16:9] 14.0 megapixels (4992 x 2808), 2.1 megapixels (1920 x 1080)
Flash	—

GENERAL SECTION

Power Supply	3.6V (Battery) / 5.0V (AC Adaptor)
Power Consumption	Max. 5.4W (Recording) / Max. 7.7W (Charging)
Dimensions (W x H x D)	Approx. 68 x 77 x 141 mm (2.677 x 3.031 x 5.551 inch)
Weight (w/o battery and SD card)	Approx. 431 g (0.950 lb)
LCD Monitor	7.5cm (3.0-inch) LCD monitor (1,843,200 dots), video display area (16:9):1,555,200dots
Touch Panel	Electrostatic
View Finder	—
Manual Ring / Dial	—
Interface	AV — HDMI Yes (micro) Microphone (stereo mini) Yes

	LINE-IN (stereo mini)	Yes
	Headphone (stereo mini)	Yes
	Remote (super mini)	Yes
	USB	USB Type-C, 2.0 Hi-Speed
	USB Charge	Yes
LED Video Light	—	
Accessory Shoe	Yes (cold)	
Lens Cover	Yes (Auto)	
On-Screen Display Language	English, German, French, Italian, Spanish, Polish, Czech, Netherlandic, Turkish, Chinese Traditional, Russian, Arabian, Thai, Hindi, Hungarian, Ukrainian, Romanian	

Wi-Fi

Standard	—
Frequency	—
NFC	—

STANDARD ACCESSORY

AC Adaptor	—
AC Cable	—
DC Cable	—
Rechargeable Battery Pack	Yes (1,940mAh)
Battery Charger	—
IR Remote	—
HDMI Cable	Yes (micro)
AV Multi Cable	—

AV Cable	–
Shoe adaptor	– (Built-in)
Lens Hood	Yes
USB Cable	Yes
Editing Software	HD Writer AE 5.4 (Download)