

General		
Power	DC 7.28 V (when the battery is used) DC 9.0 V (when the AC adaptor is used)	
Power Consumption	19.8 W (recording), 15.5 W (charging)	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Operating Humidity	10 % to 80 % (no condensation)	
Weight* ¹	Approx. 0.85kg (Approx. 1.88 lbs.) (main unit only, excluding handle unit, lens hood, battery and eye cup) Approx. 1.5kg (Approx. 3.31 lbs.) (including handle unit, lens hood, battery and eye cup)	
Dimensions* ¹	129 mm (W) x 159 mm (H) x 267 mm (D) (5.08 in. x 6.26 in. x 10.1 in.) (including handle unit, lens hood, battery and eye cup. excluding microphone holder)	
Camera Unit		
Pickup Device	1/2.5-type MOS solid state image sensor	
Effective Pixels	approx. 8,290,000 pixels	
Lens	Optical image stabilizer lens, motorized 24x zoom F value: F1.8 to F4.0 Focal length: f=4.12 mm to 98.9 mmm, 35 mm equivalent: 25.0 mm to 600 mm	
Filter Diameter	62 mm	
Optical Filter	ND Filter: Clear, 1/4, 1/16, 1/64 IR Filter: Incorporates the ON/OFF control function	
Shortest Shooting Distance (M.O.D.)	Approx. 10 cm (W), 1.2 m (T) from the front lens	
Gain Setting	0 dB to 30 dB	
Color Temperature Setting	ATW, ATW LOCK, A ch, B ch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)	
Shutter Speed	When [SYSTEM MODE] = 59.94 Hz	
	59.94i/59.94p mode	1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	29.97p mode	1/30 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	23.98p mode	1/24 sec., 1/48 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	When [SYSTEM MODE] = 50.00 Hz	
	50i/50p mode	1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	25p mode	1/25 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	Shutter Speed (Slow Shutter)	When [SYSTEM MODE] = 59.94 Hz
59.94i/59.94p mode		1/8 sec., 1/15 sec., 1/30 sec.
29.97p mode		1/8 sec., 1/15 sec.

	23.98p mode	1/6 sec., 1/12 sec.
	When [SYSTEM MODE] = 50.00 Hz	
	50i/50p mode	1/6 sec., 1/12 sec., 1/25 sec.
	25p mode	1/6 sec., 1/12 sec.
Super Slow Recording	When [SYSTEM MODE] = 59.94 Hz 1920 x 1080 (FHD): shooting frame rate 120 fps	
	When [SYSTEM MODE] = 50.00 Hz 1920 x 1080 (FHD): shooting frame rate 100 fps	
Minimum illuminance of subject	1.5 lx (F1.8, [SUPER GAIN +] is enabled, when shutter speed is 1/30 sec.)	
i.Zoom	x48 (FHD), x32 (UHD)	
Digital Zoom	x2/ x5/ x10	
LED light (when using the hundle unit)	Illuminance: approx.70 lx (1.0m/approx.3.3 feet) Illumination angle: approx. 30° Color temperature: approx.4600K	
Lens Hood	Hood with lens cover	
Memory Card Recorder		
Recording Media	SDHC memory card (4 GB to 32 GB), SDXC memory card (over 32 GB to 512 GB), microP2 card (A series, B series)*2	
Recording Slot	2 slots	
Recording Pixels	3840 x 2160: 59.94p, 50.00p, 29.97p, 25.00p, 23.98p 1920 x 1080: 59.94p, 50.00p, 29.97p, 25.00p, 23.98p, 59.94i, 50.00i 1280 x 720: 59.94p, 50.00p	
System Frequency	59.94 Hz/50.00 Hz	
Recording File Format	P2, MOV, MP4, AVCHD	
Recording Format	Please see the "Recording Format" table.	
Recording Time	Please see the "Recording Time" table.	
2 Slot Functions	Relay Rec, Simultaneous Rec, Background Rec	
Still Image Recording	JPEG (DCF/Exif2.2)	
Digital Video		
Quantization	P2	4:2:2 10bit (AVC-Intra100/AVC-LongG50/AVC-LongG25), 4:2:0 10bit (AVC-Intra50), 4:2:0 8bit (AVC-LongG12/AVC-LongG6 (proxy))
	MOV	4:2:2 10 bit/4:2:0 10 bit (HEVC)/4:2:0 8 bit
	MP4	4:2:0 10 bit (HEVC)/4:2:0 8 bit
	AVCHD	4:2:0 8 bit
Video Compression Format	P2: AVC-Intra100/AVC-Intra50	MPEG-4 AVC/H.264 Intra Profile
	P2: AVC-LongG50/ AVC-LongG25/AVC-LongG12/ AVC-LongG6 (Proxy)	H.264/MPEG-4 AVC High Profile
	MOV/MP4	H.264/MPEG-4 AVC High Profile, H.265/MPEG-4 HEVC Main10 Profile
	AVCHD	MPEG-4 AVC/H.264 High Profile

Digital Audio		
Recording Audio Signal	MOV	48 kHz/24 bit, 2 ch, Linear PCM
	MP4	48 kHz/16 bit, 2 ch, AAC
	AVCHD	48 kHz/16 bit, 2 ch, Dolby Audio™
	P2	48 kHz/24 bit, 2ch, Linear PCM (AVC-Intra100, AVC-Intra50, AVC-LongG50, AVC-LongG25) 48 kHz/16 bit, 2ch, Linear PCM (AVC-Intra100, AVC-Intra50, AVC-LongG12, AVC-LongG6 (proxy))* ³
Headroom	12 dB/18 dB/20 dB switchable (menu)	
Live Streaming		
Video Compression Format	H.264/MPEG-4 AVC Main Profile, H.264/MPEG-4 AVC High Profile	
Video Resolution	1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 320 x 180	
Streaming Method	Unicast, Multicast	
Frame Rate	System frequency = 59.94 Hz: 60 fps, 30 fps, 24 fps System frequency = 50.00 Hz: 50 fps, 25 fps	
Bit Rate	24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps, 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps	
Audio Compression Format	AAC-LC, 48 kHz/16 bit, 2 ch	
Network Protocol	RTSP/RTP/RTMP/RTMPS* ⁴	
Video Output		
SDI OUT	BNC x 1, SDI REC REMOTE supported, Timecode output, 0.8 V [p-p], 75 Ω, HD-SDI, Output format (4:2:2 10 bit): • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 29.97Psf, 25p, 25Psf, 23.98p, 23.98PsF • 1280 x 720: 59.94p, 50p	
HDMI OUT	HDMI x 1, Type A, HDMI REC REMOTE supported, VIERA Link not supported Output format (4:2:2 10 bit): • 3840 x 2160: 59.94p, 50p, 29.97p, 25p, 23.98p • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p • 1280 x 720: 59.94p, 50p • 720 x 480: 59.94p • 720 x 576: 50p	
Audio Input/Output		
Built-in Microphone	Stereo microphone	
MIC terminal	3.5 mm diameter stereo mini jack x 1, plug-in power support	
Input 1/2 (when using the handle unit)	XLR (3-pin) x 2 (INPUT1, INPUT2) Input high impedance, LINE/MIC/MIC+48V (switchable SW) LINE: +4 dBu/0 dBu (switchable menu) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)	
SDI OUT	Linear PCM 2 ch	
HDMI OUT	Linear PCM 2 ch	
Headphone	3.5 mm diameter stereo mini jack x 1	
Speaker	15 mm diameter, round x 1	
Other Input/Output		
Remote	2.5 mm diameter super mini jack x1 (for serial communication)* ⁵	

USB 2.0	USB Type-C x1, High-Speed USB (USB2.0) Host/Device (switched with menu) Device: mass strage function (readout only) Host: bus power support (5V, 0.5A), USB tethering connection function, USB ethernet adapter support
DC IN 12V	9V/3A, USB Type-C x1, USB-PD compatible
Monitor/Viewfinder	
LCD Montor	3.5 type WIDE LCD color monitor, approx. 2,760,000 dots, capacitive touch panel
Viewfinder	0.39 type OLED (organic EL display), approx. 2,360,000 dots, video display (16: 9) area: approx. 1,770,000 dots

*1: Weight and dimensions shown are approximate.

*2: microP2 cards are discontinued.

*3: 24 bit/16 bit switch by menu.

*4: For the purpose of compliance with RED DELEGATED REGULATION (EU) 2022/30, a streaming functionality with RTP/RTSP/RTMP will no longer be provided around summer 2025 onward.

*5: The analog control remote controller used with previous Panasonic models may not be used with this device.