## Specifications

General	
Power:	DC 7.28 V (when the battery is used) DC 12 V (when the AC adaptor is used)
Power Consumption:	17 W (when the LCD monitor is used) 11.5 W (1080i / 422ALL-I 100M recording, when the LCD monitor is used, no external device connection)
Operating Temperature	e: 0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity:	10 % to 80 % (no condensation)
Weight:	Body: approx. 1.9 kg (4.19 lb) (body only, excluding lens hood, battery, and accessories) Shooting: approx. 2.3 kg (5.07 lb) (including lens hood, battery, and microphone holder)
Dimensions:	180 mm (W) x 173 mm (H) x 311 mm (D) (7-1/8 inches x 6-13/16 inches x 12-1/4 inches) (excluding protrusion and eye cup)
Camera Unit	
Pickup Device:	1.0-type (effective size) MOS solid state image sensor
Effective Pixels:	15,030,000 pixel
Lens:	Optical image stabilizer lens, optical 20x motorized zoom F value: F2.8 to F4.5 Focal length: f=8.8 mm to 176 mm 35 mm equivalent: 24.5 mm to 490 mm Filter Diameter: 67 mm 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), 1.0 m (T) from the front lens
Gain Setting:	L/M/H selector switch GAIN/ISO mode = dB -3 dB to 18 dB (adjustable in 1 dB steps) 24 dB, 30 dB, 36 dB switched (when assigning [S. GAIN] to the USER button) GAIN/ISO mode = ISO ISO 400, ISO 500, ISO 640, ISO 800, ISO 1000, ISO 1250, ISO 1600, ISO 2000, ISO 2500, ISO 3200, ISO 4000, ISO 5000, ISO 6400, ISO 8000, ISO 10000, ISO 12800
Color Temperature Se	tting: 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. (shutter off), 1/100 sec., 1/120 sec., 1/250 sec.,  1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec.,  1/8000 sec., 1/10000 sec.  • 29.97p mode:  1/30 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec.,  1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,  1/4000 sec., 1/8000 sec., 1/10000 sec.  • 23.98p mode:  1/24 sec., 1/48 sec., 1/50 sec. (shutter off), 1/60 sec.,  1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,  1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.,
	1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec. When [SYSTEM MODE] = 50.00 Hz  •501/50p mode: 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec.  •25p mode: 1/25 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/250 sec., 1/250 sec., 1/1000 sec., 1/250 sec., 1/2500 sec., 1
Shutter Speed: (Slow Shutter)	When [SYSTEM MODE] = 59.94 Hz  • 59.94i/59.94p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec.  • 29.97p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 23.98p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/8 sec., 1/12 sec., 1/9 sec., 1/12 sec., 1/12 sec., 1/2 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/2 sec., 1/2 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.
Shutter Speed: (Synchro Scan)	When [SYSTEM MODE] = 59.94 Hz  • 59.94i/59.94p mode: 1/60.0 sec. to 1/7200 sec.  • 29.97p mode: 1/30.0 sec. to 1/7200 sec.  • 23.98p mode: 1/24.0 sec. to 1/7200 sec.  When [SYSTEM MODE] = 50.00 Hz  • 50i/50p mode: 1/50.0 sec. to 1/7200 sec.  • 25p mode: 1/25.0 sec. to 1/7200 sec.
Shutter Open Angle:	3.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps)
VFR Recording Frame	
	When [SYSTEM MODE] = 50.00 Hz 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30 32, 34, 37, 42, 45, 48, 50 (fps)

Super Slow Recording:	1920 x 10 When [SY	STEM MODE] = 59.94 Hz 180 (FHD): shooting frame rate 120 fps 'STEM MODE] = 50.00 Hz 180 (FHD): shooting frame rate 100 fps	
Sensitivity:	When [HIGH SENS.] mode F12 (2000 lx, 3200 K, 89.9 % reflect, 2160/59.94p, 1080/59.94 F13 (2000 lx, 3200 K, 89.9 % reflect, 2160/50p, 1080/50i)		
Horizontal Resolution:	: 2000 TV or higher (UHD: center) 1000 TV or higher (FHD: center)		
i.Zoom:	x 32 (FHI	D), x 24 (UHD)	
Digital Zoom:	x 2/ x 5/	x 10	
Lens Hood:	Hood with	n lens cover	
Memory Card Re	corder		
Recording Media:	UHS-I/UH Video Spe microP2 o	emory card, SDXC memory card IS-II UHS Speed Class 3 supported, sed Class V90 supported card* (A series, B series) e page 11 for the "Available Memory Card" table.	
Recording Slot:	microP2*1	/SDXC UHS-II card slot x 2	
Recording Pixels:	(AVC-Intra	60 (UHD), 1920 × 1080 (FHD), 1280 × 720 (HD) a50: 1440 × 1080, 960 × 720) 0 (SD), 720 × 576 (SD)	
System Frequency:	59.94 Hz/	50.00 Hz	
Recording File Format	MOV (AV	C), MOV (HEVC), AVCHD, P2 MXF	
Recording Format:	Please se	e page 6 for the "Recording Format" table.	
Recording Time:	Please se	e page 11 for the "Recording Time" table.	
2 Slot Functions:	Relay Red	c, Simultaneous Rec, Background Rec	
Special Recording Fun		nterval Rec, Time Stamp	
Digital Video		•	
Quantization:	MOV:	4:2:2 10 bit/4:2:0 8 bit/4:2:0 10 bit (HEVC)	
	AVCHD: P2:	4:2:0 8 bit 4:2:2 10 bit/4:2:0 10 bit (AVC-intra50)/ 4:2:0 8 bit (AVC-LongG12)	
Video Compression:	MOV: P2:	H.264/MPEG-4 AVC High Profile H.265/MPEG-H HEVC Main10 Profile AVC-Intra422/AVC-LongG 50/AVC-LongG 25/ AVC-LongG 12 : MPEG-4 AVC/H.264 High Profile AVC-Intra200/AVC-Intra100/AVC-Intra50 : MPEG-4 AVC/H.264 Intra Profile	
Digital Audio			
Recording Audio Signal:	MOV: AVCHD: P2:	48 kHz/24 bit, 4 ch, Linear PCM 48 kHz/16 bit, 2 ch, Dolby Audio™ 48 kHz/24 bit, 4 ch (excluding AVC-LongG12) 48 kHz/16 bit, 4 CH (AVC-Intra100/AVC-Intra50*/ AVC-LongG12) *24 bit/16 bit switch by menu	
Headroom:	12 dB/18	dB/20 dB switchable (menu)	
AVC Proxy			
File Format	MOV		
Video Compression:	H264/AV0	C High Profile	
Audio Compression:	AAC-LC	3	
Recording Time:	Approx. 1	3 min. per 1 GB of AVC-G6 2CH MOV	
	reases to or cording usir	ne-half when recorded in 60p/50p. These are reference ng the Panasonic products. The recording time may	
Streaming			
Video Compression:		PEG-4 AVC Main Profile, PEG-4 AVC High Profile	
Video Resolution	3640 x 2160 (UHD), 1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 360 x 180		
Streaming Method	Unicast, N		
Frame Rate	System fr	equency = 59.94 Hz: 24 fps, 30 fps, 60 fps equency = 50.00 Hz: 25 fps, 50 fps	
Bit Rate	3640 x 2160 (UHD): 75 Mbps, 50 Mbps, 25 Mbps, 12 Mbps, 8 Mbps Other than those above: 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		48 kHz/16 bit, 2 CH	
Commendad Duetasal	DTCD/DT	D/DTMD/DTMDC/CDT	

RTSP/RTP/RTMP/RTMPS/SRT

Supported Protocol

## **Video Output**

Headphone:

AV OUT: Speaker:

SDI OUT:	BNC x 1, SDI REC REMOTE supported HD: $0.8 \text{ V } [p\text{-p}]$ , $75 \Omega$ SD: $0.8 \text{ V } [p\text{-p}]$ , $75 \Omega$ , Output format (4:2:2 10 bit): • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97Psf, 25Psf, 23.98PsF • 1280 x 720: 59.94p, 50p • 720 x 480: 59.94i • 720 x 576: 50i	
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	
VIDEO OUT:	3.5 mm diameter mini jack, composite 1.0 V [p-p], 75 $\Omega$	
Audio Input/Out	out	
Built-in Microphone:	Stereo microphone	
Input 1/2:	XLR (3-pin) x 2 (INPUT1, INPUT2) Input high impedance, LINE/MIC/MIC+48V (switchable SW) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu) LINE: +4 dBu/0 dBu (switchable menu)	
SDI OUT:	Linear PCM 4 ch	
HDMI OUT:	Linear PCM 2 ch/4 ch (switchable menu)	

3.5 mm diameter stereo mini jack x 1

3.5 mm diameter stereo mini jack x 1, Output level: 600  $\Omega$ , 316 mV

20 mm diameter, round x 1

## Other Input/Output

Other input/ou	ıput	
TC IN/OUT:	BNC x 1, Used as the input and output terminals (switchable menu) Input: 1.0 V to 4.0 V [p-p] 10 k $\Omega$ Output: 2.0 V $\pm$ 0.5 V [p-p] low impedance	
REMOTE:	2.5 mm diameter super mini jack     *The analog control remote controller used with previous     Panasonic models may not be used with this device.	
LAN:	RJ-45: 1000BASE-T/100BASE-TX/10BASE-T NDI   HX supported* *To use this function, an activation keycode from NewTek is required. Keycodes can be purchased from the following website: http://new.tk/ndi_panasonic	
USB 2.0 HOST:	Type-A, 4-pin (5 V, 0.5 A) for Wireless Module (option)	
USB 3.0 DEVICE:	USB 3.1 GEN1 Type-C, USB Mass storage function No USB bus power function	
DC IN 12V:	DC 12 V EIAJ Type 4	
Monitor/Viewfir	nder	
LCD Monitor:	3.2 type TFT LCD color monitor (3:2), approx. 1,620,000 dots, Touch panel video display (16: 9) area: Approx. 1,370,000 dots	
Viewfinder:	0.39 type OLED (organic EL display), approx. 2,360,000 dots video display (16: 9) area: approx. 1,770,000 dots	

## **Included Accessories**

Battery (AG-VBR59), Battery charger (AG-BRD50), AC adaptor, AC cable, Microphone holder kit, Shoulder strap, Eye cup, Lens hood\*, Grip belt\* and Operating instructions (Items marked by an asterisk (\*) come already attached to the camera)