Specifications

Tentative, as of September, 2016

General

Power:	DC 7.28 V (when the battery is used) DC 12 V (when the AC adaptor is used)
Power Consumption:	12.2 W (when the LCD monitor is used)
Operating Temperature:	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 eye cup)
Dimensions:	169 mm (W) x 195 mm (H) x 340 mm (D) (6-21/32 inches x 7-11/16 inches x 13-3/8 inches) (excluding protrusion and eye cup) 169 mm (W) x 195 mm (H) x 382 mm(D) (6-21/32 inches x 7-11/16 inches x 15-1/32 inches) (including eye cup, excluding protrusion)

Camera Unit

Pickup Device:	1.0-type MOS solid state image sensor
Effective Pixels:	17.78 megapixel: FHD 50.00p/25.00p 8.59 megapixel: UHD 25.00p
Lens:	Optical image stabilizer lens, optical 15x motorized zoom F2.8 to F4.5 (f=8.8 mm to 132 mm) 35 mm equivalent: f=24.5 mm to 367.5 mm: FHD 50.00p/25.00p f=35.4 mm to 531.0 mm: UHD 25.00p Filter Diameter: 67 mm ND Filter: 4 Positions (OFF, 1/4, 1/16, 1/64) Shortest Shooting Distance (M.O.D.): Approx. 1.0 m from the front lens
Gain Setting:	L/M/H selector switch (toggle switch) Standard mode: 0 dB to 30 dB (Adjustable in 1 dB steps) (Automatic setting can be assigned to L/M/H) Extended ON: –3 dB to 30 dB (Adjustable in 1 dB steps) (Automatic setting can be assigned to L/M/H) 33 dB and 36 dB switched (when assigning [S.GAIN] to the USER button)
Color Temperature Setting:	ATW, ATW LOCK, Ach, Bch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)
Shutter Speed:	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)	50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec. 25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
VFR Recording Frame Rate:	25p mode: 2, 12, 21, 23, 25, 27, 30, 37, 50 (fps)
Minimum Subject Illumination:	1.1 lx (F2.8, Super Gain 36dB, Manual slow shutter 1/25s)
Digital Zoom:	2x/5x/10x, i.Zoom: max. 25x (optical zoom + digital zoom)
Lens Hood:	Hood with lens cover

Memory Card Recorder

Recording Media:*1	SDHC memory card (4 GB to 32 GB), SDXC memory card (48 GB to 128 GB) UHS-I supported
Recording Slot:	Slot x 2
System Format:	50 Hz
Recording Format:	MOV, MP4, AVCHD
Recording Mode:	Please see page 1 for the Recording Format table.
Recording Time:	Please see below for the Recording Time table.
2 Slot Functions:	Relay, Simultaneous
Still Picture Recording Mode:	JPEG (DCF/Exif2.2)
Still Picture Recording:	Motion Picture Playback: 8.3 M: 3840 x 2160 (16:9), 2.1 M: 1920 x 1080 (16:9), 0.9 M: 1280 x 720 (16:9)

Digital Video

Video Signal for External Output:	8 bit 4:2:2
Recording Video Signal:	8 bit 4:2:0
Video Compression Format:	MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)

Digital Audio

Sampling Frequency:	48 kHz/16 bit 2 ch
Audio Signal Format:	LPCM (MOV/MP4), Dolby Digital (AVCHD)
Headroom:	12 dB

Video Input/Output

VIDEO OUT:	VIDEO OUT connector x 1
HDMI:	Type A connector x 1, VIERA Link not supported Output format: 2160/25.00p, 1080/50p/25p/50i, 720/50p, 576/50p

Audio Input

Built-in Microphone:	Stereo microphone
XLR Input:	XLR (3-pin) x 2 (INPUT1, INPUT2) high impedance, LINE/MIC/MIC+48V (switchable SW) LINE: +4 dBu/0 dBu (switchable menu) MIC: –40 dBu/–50 dBu/–60 dBu (switchable menu)

Audio Output

HDMI:	2 ch (LPCM)
AUDIO OUT:	AUDIO OUT x 2
Headphone:	3.5 mm diameter stereo mini jack x 1
Speaker:	20 mm diameter, round x 1

Other Input/Output

Camera Remote:	2.5 mm diameter super mini jack x1 (ZOOM, S/S) 3.5 mm diameter mini jack x1 (FOCUS, IRIS)
USB 3.0 HOST:	Standard-A connector, 9-pin, external media device connection*2, bus power supported
USB 3.0 DEVICE:	Micro-B connector, 10-pin, Mass storage function (read only)
DC IN 12V:	DC 12 V (11.4 V to 12.6 V) EIAJ Type4

Monitor/Viewfinder

LCD Monitor:	3.5-type LCD monitor, Approx. 1,150,000 dots
Viewfinder:	0.24-type EVF, Approx. 1,560,000 dots equivalent

Included Accessories

Battery (AG-VBR59), Battery charger (AG-BRD50), AC adaptor, Microphone holder, Screw for microphone holder (12 mm), AC cable x 2, Eye cup, Lens hood, INPUT terminal cap, Operating instructions

*1: An SD memory card with a capacity of UHS Speed Class 3 (U3) is required to shoot videos with a bit rate of 100 Mbps or higher.

*2: External media devices with a capacity of below 32 GB or a capacity above 2 TB cannot be used.

Recording Time

Recording Format			4 GB	8 GB	16 GB	32 GB	64 GB	128 GB
MOV/MP4	UHD	100 Mbps	—	—	Approx. 20 min.	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
	FHD	50 Mbps	Approx. 10 min.	Approx. 20 min.	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.
AVCHD	PS	25 Mbps	Approx. 19 min.	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.	Approx. 11 hours
	PH	21 Mbps	Approx. 21 min.	Approx. 45 min.	Approx. 1 hour 30 min.	Approx. 3 hours	Approx. 6 hours	Approx. 12 hours 30 min.
	HA	17 Mbps	Approx. 30 min.	Approx. 1 hour	Approx. 2 hours	Approx. 4 hours 10 min.	Approx. 8 hours 30 min.	Approx. 17 hours
	HE	5 Mbps	Approx. 1 hour 30 min.	Approx. 3 hours 20 min.	Approx. 6 hours 40 min.	Approx. 13 hours 40 min.	Approx. 27 hours 30 min.	Approx. 56 hours
	HE	8 Mbps	Approx. 1 hour	Approx. 2 hours	Approx. 4 hours 15 min.	Approx. 8 hours 30 min.	Approx. 17 hours 10 min.	Approx. 35 hours
	SA	9 Mbps	Approx. 1 hour	Approx. 2 hours	Approx. 4 hours	Approx. 8 hours	Approx. 16 hours 30 min.	Approx. 34 hours