

## General

Power:	DC: 12 V (11.0 V – 17.0 V)
Power Consumption:	32 W (body only, 2160-59.94p/HEVC LongGOP 100M standard recording status, LCD ON) 72 W (with all the accessories connected and maximum power supplied from each output terminal)
Operating Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity:	10% to 85% (relative humidity)
Storage Temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Weight:	Approx. 3.4 kg (7.5 lbs.) (body only)
Dimensions	143 mm (W) × 267 mm (H) × 348 mm (D) (5-5/8 inches × 10-1/2 inches × 13-23/32 inches) (body only, excluding protrusion)

## Camera Unit

Pickup Device:	MOS×1
Number of Pixels:	11.14 million pixels
Lens Mount:	2/3-type bayonet
Optical Filter:	CC filter: A: 3200 K, B: 4300 K, C: 5600 K, D: 6300 K ND filter: 1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Gain Setting:	-6 dB to 30 dB, can be set in 1 dB steps
Digital Super Gain: (DS.GAIN)	Selectable from 6 dB, 10 dB, 12 dB, 15 dB, 20 dB, 24 dB, 28 dB, 34 dB
Super Gain (S.GAIN)	Selectable from 30 dB, 36 dB, 42 dB
Shutter Speed:	[59.94 Hz] 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF [50.00 Hz] 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF
Synchro Scan Shutter:	[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. [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 360.0 deg (can be set in 0.5 deg steps)
Sensitivity:	[NORMAL] mode F6 (2000 lx, 3200 K, 89.9% reflection, 59.94 Hz) F7 (2000 lx, 3200 K, 89.9% reflection, 50.00 Hz) [HIGH SENS.] mode F10 (2000 lx, 3200 K, 89.9% reflection, 59.94 Hz) F11 (2000 lx, 3200 K, 89.9% reflection, 50.00 Hz)
Minimum Illumination:	Approx. 0.005 lx (F1.4, +42 dB (S.GAIN), +34 dB (DS.GAIN))
Image S/N:	62 dB (standard)
Horizontal Resolution:	UHD: 2000 TV or higher (center) HD: 1000 TV or higher (center)
Digital Zoom:	×2, ×3, ×4

## Memory Card Recorder

Recording Media:	<ul style="list-style-type: none"> <li>expressP2 card</li> <li>microP2 card</li> <li>SDXC memory card (exceeding 32 GB to 128 GB) UHS-I/UHS-II, UHS Speed Class 3 compatible, video Speed Class V90 compatible</li> </ul>
Recording Slot:	expressP2 card slot × 1 microP2/SDXC UHS-II memory card slot × 2
Recording Pixels:	3840×2160 (UHD), 1920×1080 (FHD), 1440×1080 (HD)*, 1280×720 (HD)
System Frequency:	59.94 Hz/50.00 Hz
Recording Format:	Please see page 4 for the "Recording Format" table.
Recording Video Signal:	3840×2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920×1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i* 1440×1080/59.94i, 50i* 1280×720/59.94p, 50p
Recording Time:	Please see page 7 for the "Recording Time" table.
Two-slot Function:	Simultaneous recording, Relay recording
Special Recording:	Pre-recording, Interval recording

## Digital Video

Number of Quantizing Bits:	<ul style="list-style-type: none"> <li>• P2: 4:2:2 10 bit/4:2:0 10 bit (AVC-Intra50)* / 4:2:0 8 bit (AVC-LongG12)</li> <li>• MOV: 4:2:2 10 bit/4:2:0 8 bit/4:2:0 10 bit (HEVC)</li> </ul>
Video Compression:	<ul style="list-style-type: none"> <li>• P2: AVC-Intra 422/AVC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 High Profile</li> <li>• P2*: AVC-Intra200/AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile</li> <li>• MOV: H.264/MPEG-4 AVC High Profile, H.265/MPEG-H HEVC Main10 Profile</li> </ul>

## Digital Audio

Recording Audio Signal:	<ul style="list-style-type: none"> <li>• P2: 48 kHz/24 bit, 4 CH 48 kHz/16 bit, 4 CH (only AVC-LongG12)</li> <li>• MOV: 48 kHz/24 bit, 4 CH</li> </ul>
Audio Recording Format:	<ul style="list-style-type: none"> <li>• P2: LPCM</li> <li>• MOV: LPCM</li> </ul>
Headroom:	18 dB/20 dB (Can be selected by menu)

## Streaming

Video Compression:	H.264/MPEG-4 AVC Main Profile H.264/MPEG-4 AVC High Profile
Video Resolution:	1920×1080 (FHD), 1280×720 (HD), 640×360, 320×180
Streaming Method:	Unicast, Multicast
Frame Rate:	[59.94 Hz]: 24 fps, 30 fps, 60 fps [50.00 Hz]: 25 fps, 50 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
Audio Compression:	AAC-LC: 48 kHz/16 bit, 2 CH
Supported Protocol:	RTSP/RTP/RTMP/RTMPS

## Video Output

SDI OUT1:	<ul style="list-style-type: none"> <li>• BNC×1</li> <li>12G-SDI: 0.8 V [p-p], 75 Ω</li> <li>3G/HD-SDI: 0.8 V [p-p], 75 Ω</li> <li>• SDI remote control supported</li> <li>• Output format (4:2:2 10 bit) 3840×2160: 59.94p, 50p, 29.97p, 25p, 23.98p 1920×1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF, 1280×720: 59.94p, 50p</li> </ul>
SDI OUT2:	<ul style="list-style-type: none"> <li>• BNC×1</li> <li>3G/HD-SDI: 0.8 V [p-p], 75 Ω</li> <li>SD-SDI: 0.8 V [p-p], 75 Ω</li> <li>• SDI remote control supported</li> <li>• Output format (4:2:2 (10 bit) output) 1920×1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF 1280×720: 59.94p, 50p, 720×480: 59.94i, 720×576: 50i</li> </ul>
HDMI:	<ul style="list-style-type: none"> <li>• HDMI type A×1 (not compatible with VIERA Link)</li> <li>• HDMI remote control supported</li> <li>• Output format (4:2:2 (10-bit) output) 3840×2160: 59.94p, 50p, 29.97p, 25p, 23.98p 1920×1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p 1280×720: 59.94p, 50p, 720×480: 59.94p, 720×576: 50p</li> </ul>

## Audio Input/Output

AUDIO IN:	<ul style="list-style-type: none"> <li>XLR×2 (CH1/3, CH2/4), 3-pin</li> <li>LINE/MIC/MIC+48V selected by switch</li> <li>• LINE: 4 dBu/0 dBu/-3 dBu selected by menu</li> <li>• MIC: -40 dBu/-50 dBu/-60 dBu selected by menu</li> <li>• MIC+48V: + 48 V/OFF compatible</li> </ul>
MIC IN:	<ul style="list-style-type: none"> <li>XLR×1, 5-pin</li> <li>+48 V ON/OFF selected by menu</li> <li>-40 dBu/-50 dBu/-60 dBu selected by menu</li> </ul>
Wireless Slot:	25-pin, D-SUB, -40 dBu, 2ch supported
AUDIO OUT:	<ul style="list-style-type: none"> <li>XLR×1, 5-pin</li> <li>4 dBu/0 dBu/-3 dBu selected by menu, equilibrium low impedance</li> </ul>
SDI OUT:	LPCM 4 CH
HDMI:	LPCM 2 CH
PHONES:	3.5 mm diameter stereo mini jack×2, output impedance 100Ω
Built-in Speaker:	20 mm diameter, round×1

## Other Input/Output

GENLOCK IN:	BNC×1, 1.0 V [p-p], 75 Ω
TC IN/OUT:	<ul style="list-style-type: none"> <li>• BNC×1, Used as input/output terminal, switch by menu</li> <li>• Input: 0.5 V – 8.0 V [p-p], 10 kΩ</li> <li>• Output: 2.0 V±0.5 V [p-p], low impedance</li> </ul>
DC IN:	XLR×1, 4-pin, DC 12 V (11.0 V – 17.0 V)
DC OUT:	4-pin, DC 12 V (11.0 V – 17.0 V), maximum output current 1.5 A
LENS :	12-pin
VF:	20-pin
LAN:	RJ-45 XLRnet connector: 1000BASE-T/100BASE-TX/10BASE-T
USB2.0 HOST:	Type A connector, 4-pin (5 V, 0.5 A), for attaching the wireless module (optional)
USB DEVICE:	USB 3.1 GEN1 type C connector, with USB mass storage function, without USB bus-powered function
LIGHT:	2-pin, DC12 V (DC 11.0 V – 17.0 V), maximum output current 4.5 A (up to 50 W equivalent)

## Monitor/Viewfinder

LCD Monitor:	3.5-inch LCD color monitor: Approx. 2.76 million pixels, touch panel supported
Display Window:	2.4-inch black and white organic EL

## Included Accessories

Mount cap (come already attached to the camera), Shoulder strap

\* Supported by firmware upgrade in the future.