

SPECIFICATIONS

As of March 2016

General

Power:	DC 7.2 V (when the battery is used) DC 12 V (when the AC adapter is used)
Power Consumption:	19.5 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:	Approx. 2.2 kg (4.9 lbs.) (body only, excluding lens hood, battery, and accessories) Approx. 2.6 kg (5.7 lbs.) (including lens hood, supplied battery, and microphone holder)
Dimensions:	176 mm (H) x 171 mm (W) x 329 mm (D) (excluding protrusions) (6-15/16 inches x 6-23/32 inches x 12-15/16 inches)

Camera Unit

Pickup Device:	1/3-type 2.2 megapixels, MOS solid state image sensor x 3
Lens:	Optical image stabilizer lens, optical 22x motorized zoom F1.6 to F3.2 (f=3.9 mm to 86 mm) 35 mm conversion: 28 mm to 616 mm (16:9)
Filter Diameter:	72 mm
Optical System:	Prism system
ND Filter:	OFF, 1/4, 1/16, 1/64
Shortest Shooting Distance: (M. O. D.)	1.1 m from the front lens Approx. 0.06 m from front lens (When Macro=On, at wide-end)
Gain Setting:	L/M/H selector switch, -3 dB to 18 dB (in 1 dB steps) (Negative value of gain is only in [HIGH SENS.] mode.) (When assigning [S. GAIN] to the USER button: Switching between 24 dB, 30 dB, and 36 dB)
Color Temperature Setting:	ATW, ATW LOCK, Ach, Bch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz <ul style="list-style-type: none"> 60i/60p mode: 1/60 (shutter off) sec, 1/100 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec 30p mode: 1/30 sec, 1/50 (shutter off) sec, 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec 24p mode: 1/24 sec, 1/50 (shutter off) sec, 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec When [SYSTEM MODE] = 50 Hz <ul style="list-style-type: none"> 50i/50p mode: 1/50 (shutter off) sec, 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec 25p mode: 1/25 sec, 1/50 (shutter off) sec, 1/60 sec, 1/120 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/2000 sec
Slow Shutter Speed:	Setting is possible when [VFR]=[OFF] When [SYSTEM MODE] = 59.94 Hz <ul style="list-style-type: none"> 60i/60p mode: 1/1 sec, 1/2 sec, 1/4 sec, 1/6 sec, 1/15 sec, 1/30 sec 30p mode: 1/1 sec, 1/2 sec, 1/4 sec, 1/6 sec, 1/15 sec 24p mode: 1/1 sec, 1/2 sec, 1/4 sec, 1/6 sec, 1/12 sec When [SYSTEM MODE] = 50 Hz <ul style="list-style-type: none"> 50i/50p mode: 1/1 sec, 1/2 sec, 1/4 sec, 1/6 sec, 1/12 sec, 1/25 sec 25p mode: 1/1 sec, 1/2 sec, 1/4 sec, 1/6 sec, 1/12 sec
Synchro Scan Shutter:	When [SYSTEM MODE] = 59.94 Hz and [SYNC SCAN TYPE] = [sec] <ul style="list-style-type: none"> 60i/60p mode: 1/60.0 sec to 1/249.8 sec 30p mode: 1/30.0 sec to 1/249.8 sec 24p mode: 1/24.0 sec to 1/249.8 sec When [SYSTEM MODE] = 50 Hz and [SYNC SCAN TYPE] = [sec] <ul style="list-style-type: none"> 50i/50p mode: 1/50.0 sec to 1/250.0 sec 25p mode: 1/25.0 sec to 1/250.0 sec
Shutter Open Angle:	3.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps, angle display)
VFR Recording Frame Rate:	<ul style="list-style-type: none"> 1080/59.94p: 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, and 60 (frames per second) 1080/50p: 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, and 50 (frames per second)
Sensitivity:	[HIGH SENS.] mode F11 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i) F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)
Minimum Subject Illumination:	0.02 lx (F1.6, gain 18 dB, [1S.EXP.], [HIGH SENS.] mode)
Digital Zoom:	x2/x5/x10
Lens Hood:	Hood with lens cover

Recording Codecs and Video Formats

Codec	1080			720		480	576
	60p 50p	60i 50i	30pN*1 24pN*2 23.98PsF 25pN*3	60p 50p	30pN 24pN 25pN	60i 30p	50i 25p
AVC-Intra200	√	√	√				
AVC-Intra100	√	√	√	√	√		
AVC-Intra50		√		√			
AVC-LongG50		√	√	√			
AVC-LongG25	√	√	√	√			
AVC-LongG12	√	√	√	√			
DVCPRO HD		√		√			
DVCPRO 50						√	√
DVCPRO						√	√
DV						√	√

*1: 1080/29.97p over 59.94p output *2: 1080/23.98p over 59.94p output *3: 1080/25p over 50p output

Memory Card Recorder

Recording Media:	microP2 card																																								
Recording Slot:	microP2 card slot x2																																								
System Format:	1080/59.94p, 1080/59.94i, 1080/23.98PsF, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i																																								
Recording Format:	AVC-Intra200/AVC-Intra100/AVC-Intra50/ AVC-LongG50/AVC-LongG25/AVC-LongG12 DVCPRO HD/DVCPRO50/DVCPRO/DV formats																																								
Recording Video Signal:	1080/59.94p, 1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 480/29.97p 1080/50p, 1080/50i, 1080/25pN, 720/50p, 720/25pN, 576/50i, 576/25p																																								
Recording/Playback Time**:	<table border="1"> <thead> <tr> <th></th> <th>16 GB x1</th> <th>32 GB x1</th> <th>64 GB x1</th> </tr> </thead> <tbody> <tr> <td>AVC-Intra200:</td> <td>Approx. 8 min</td> <td>Approx. 16 min</td> <td>Approx. 32 min</td> </tr> <tr> <td>AVC-Intra100:</td> <td>Approx. 16 min</td> <td>Approx. 32 min</td> <td>Approx. 64 min</td> </tr> <tr> <td>AVC-Intra50:</td> <td>Approx. 32 min</td> <td>Approx. 64 min</td> <td>Approx. 128 min</td> </tr> <tr> <td>AVC-LongG50:</td> <td>Approx. 32 min</td> <td>Approx. 64 min</td> <td>Approx. 128 min</td> </tr> <tr> <td>AVC-LongG25:</td> <td>Approx. 64 min</td> <td>Approx. 128 min</td> <td>Approx. 256 min</td> </tr> <tr> <td>AVC-LongG12:</td> <td>Approx. 120 min</td> <td>Approx. 240 min</td> <td>Approx. 480 min</td> </tr> <tr> <td>DVCPRO HD:</td> <td>Approx. 16 min</td> <td>Approx. 32 min</td> <td>Approx. 64 min</td> </tr> <tr> <td>DVCPRO 50:</td> <td>Approx. 32 min</td> <td>Approx. 64 min</td> <td>Approx. 128 min</td> </tr> <tr> <td>DVCPRO/DV:</td> <td>Approx. 64 min</td> <td>Approx. 128 min</td> <td>Approx. 256 min</td> </tr> </tbody> </table>		16 GB x1	32 GB x1	64 GB x1	AVC-Intra200:	Approx. 8 min	Approx. 16 min	Approx. 32 min	AVC-Intra100:	Approx. 16 min	Approx. 32 min	Approx. 64 min	AVC-Intra50:	Approx. 32 min	Approx. 64 min	Approx. 128 min	AVC-LongG50:	Approx. 32 min	Approx. 64 min	Approx. 128 min	AVC-LongG25:	Approx. 64 min	Approx. 128 min	Approx. 256 min	AVC-LongG12:	Approx. 120 min	Approx. 240 min	Approx. 480 min	DVCPRO HD:	Approx. 16 min	Approx. 32 min	Approx. 64 min	DVCPRO 50:	Approx. 32 min	Approx. 64 min	Approx. 128 min	DVCPRO/DV:	Approx. 64 min	Approx. 128 min	Approx. 256 min
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Digital Video

Sampling Frequency:	AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/ AVC-LongG25/AVC-LongG12/DVCPRO HD Y: 74.1758 MHz, P _B /P _R : 37.0879 MHz (59.94 Hz) Y: 74.2500 MHz, P _B /P _R : 37.1250 MHz (50 Hz) DVCPRO50 Y: 13.5 MHz, P _B /P _R : 6.75 MHz DVCPRO Y: 13.5 MHz, P _B /P _R : 3.375 MHz
Quantizing:	AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/ AVC-LongG25: 10 bits AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits
Video Compression Format:	AVC-Intra200/AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile AVC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 DVCPRO HD: DV-Based Compression DVCPRO50/DVCPRO: DV-Based Compression DV: DV Compression

Digital Audio

Recording Audio Signal:	AVC-Intra200/AVC-LongG50/AVC-LongG25: 48 kHz/24 bits, 4 CH AVC-Intra100/AVC-Intra50: 48 kHz/16 bits, 4 CH and 48 kHz/24 bits, 4 CH switch AVC-LongG12/DVCPRO HD/DVCPRO50: 48 kHz/16 bits, 4 CH DVCPRO/DV: 48 kHz/16 bits, 4 CH
Headroom:	12 dB/18 dB/20 dB switchable menu

Video Input/Output

SDI OUT:	BNC x 1, HD (3G/1.5G), SD: 0.8 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

Audio Input

Built-in Microphone:	Supports stereo microphone
AUDIO INPUT 1/2:	XLR x 2, 3 pin, high impedance, LINE/MIC switch selection LINE: 4 dBu/0 dBu (selectable menu) MIC: -40 dBu/-50 dBu/-60 dBu (selectable menu), +48 V on/off (switch selection)

Audio Output

Headphones:	3.5 mm diameter stereo mini jack x 1 100 Ω, -16 dBV (32 Ω load, at maximum output level)
Speaker:	20 mm diameter, round x 1

Other Input/Output

CAM REMOTE:	2.5 mm diameter super mini jack x1 ZOOM S/S 3.5 mm diameter mini jack x1 FOCUS IRIS
USB2.0 DEVICE:	Type miniB connector, 4 pin
DC IN 12V:	DC 12 V (DC 10.5 V - 13.5 V), EIAJ type 4

Maintenance Part

USB2.0 HOST (sub-host):	Type A connector, 4 pin
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Monitor

LCD Monitor:	3.5 type QHD color monitor (Approx. 1,560,000 dots)
Viewfinder:	0.5 type OLED (organic EL display) (Approx. 2,360,000 dots, video display area: Approx. 1,770,000 dots)

Included Accessories

Battery (VW-VBD58), Shoulder strap, Battery charger, AC adapter, Microphone holder, Screw for microphone holder (12 mm), Power cord x 2, Eye cup, Lens hood, Grip belt

*4: Figures are for continuous recording as one clip. Depending on the number of clips, the overall recording time may be shorter than the above.

Weight and dimensions are approximate. Specifications are subject to change without notice.