

AG-HPX610PJH/EJH/PJF/EJF SPECIFICATIONS

As of August, 2014

General Specification

Supply Voltage:	DC 12 V (DC 11 V to 17 V)
Power Consumption:	18 W (main unit only) 22 W (with AG-YDX600G and AG-YA600G)
Operating Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity:	10% to 85% (no condensation)
Keeping Temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Weight:	Approx. 2.8 kg (6.2 lb) excluding battery and accessories
Dimensions (W x H x D):	144 mm x 267 mm x 350 mm (5-21/32 inches x 10-1/2 inches x 13-25/32 inches) excluding prominent parts

Camera Section

Pick-up Device:	2/3-type MOS x 1
Lens Mount:	2/3-type bayonet type
ND Filter:	4 position (Clear, 1/4ND, 1/16ND, 1/64ND)
Gain Selection*1:	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB (18 dB: USER SW allocation)
Color Temperature Settings:	ATW, ATW LOCK, Ach, Bch, Preset 3200 K/Preset 5600 K/VAR (2400K to 9900K)
Shutter Speed: (Preset)	SYSTEM MODE = 59.94 Hz ●60i/60p mode: 1/60 (OFF) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec. ●30p mode: 1/30 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec. ●24p mode: 1/24 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec. SYSTEM MODE = 50 Hz ●50i/50p mode: 1/50 (OFF) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec. ●25p mode: 1/25 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.
Shutter Speed: (Slow)	SYSTEM MODE = 59.94 Hz ●60i/60p mode: 1/15 sec., 1/30 sec. ●30p mode: 1/15 sec. ●24p mode: 1/12 sec. SYSTEM MODE = 50 Hz ●50i/50p mode: 1/12.5 sec., 1/25 sec. ●25p mode: 1/12.5 sec.
Shutter Speed: (Syncro Scan)	SYSTEM MODE = 59.94 Hz (SYNC SCAN TYPE = sec) ●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 1/249.8sec. SYSTEM MODE = 50 Hz (SYNC SCAN TYPE = sec) ●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:	SCENE FILE VFR = OFF 3 deg to 360 deg, 0.5 deg step select SCENE FILE VFR = ON*2 (FRAME RATE 12p or more) 3 deg to 360 deg, 0.5 deg step select SCENE FILE VFR = ON*2 (Less than FRAME RATE 12p) 3 deg to 22.5 deg, 0.5 deg step select 45 deg, 90 deg, 180 deg, 360 deg
Frame Rates*2: (59.94 Hz mode)	●1080: 1/2/4/6/9/12/15/18/20/21/22/24/25/26/27/ 28/30 (frames per second) 17 steps ●720: 1/2/4/6/9/12/15/18/20/21/22/24/25/26/27/ 28/30/32/34/36/40/44/48/54/60 (frames per second) 25 steps
Frame Rates*2: (50 Hz mode)	●1080: 1/2/4/6/9/12/15/18/20/21/22/23/24/25 (frames per second) 14 steps ●720: 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 (frames per second) 25 steps
Sensitivity*3:	F12 (2000 lx, 3200 K, 89.9% reflect, 1080/59.94i) F13 (2000 lx, 3200 K, 89.9% reflect, 1080/50i)
Video S/N*3:	59 dB (standard)
Digital Zoom:	x 2, x 4

Memory Card Recorder Section

Recording Media:	P2 card
System Formats:	1080/59.94i, 1080/23.98PsF*2, 720/59.94p, 480/59.94i, 1080/50i, 720/50p, 576/50i
Recording Video Signal:	1080/59.94i, 1080/29.97p, 1080/29.97pN, 1080/23.98p, 1080/23.98pA, 1080/23.98pN, 1080/50i, 1080/25p, 1080/25pN, 720/59.94p, 720/29.97p, 720/29.97pN, 720/23.98p, 720/23.98pN, 720/50p, 720/25p, 720/25pN, 480/59.94i, 480/29.97p, 480/23.98p, 480/23.98pA, 576/50i, 576/25p
Recording Formats:	AVC-Intra100/AVC-Intra50/DVCPRO HD/ DVCPRO 50/DVCPRO/DV formats switchable

Recording/Playback Time*4: with a 64 GB P2 card	AVC-Intra100/DVCPRO HD: AVC-Intra50/DVCPRO 50: DVCPRO/DV:	approx. 64 min. approx. 128 min. approx. 256 min.
Recording/Playback Time*4: with a 32 GB P2 card	AVC-Intra100/DVCPRO HD: AVC-Intra50/DVCPRO 50: DVCPRO/DV:	approx. 32 min. approx. 64 min. approx. 128 min.
Recording/Playback Time*4: with a 16 GB P2 card	AVC-Intra100/DVCPRO HD: AVC-Intra50/DVCPRO 50: DVCPRO/DV:	approx. 16 min. approx. 32 min. approx. 64 min.

Digital Video Specification

Recorded Video Signals:	AVC-Intra100/DVCPRO HD: Y: 74.1758 MHz, Pb/Pr: 37.0879 MHz (59.94 Hz) Y: 74.2500 MHz, Pb/Pr: 37.1250 MHz (50 Hz) DVCPRO 50: Y: 13.5 MHz, P Pb/Pr: 6.75 MHz DVCPRO: Y: 13.5 MHz, Pb/Pr: 3.375 MHz
Quantizing:	AVC-Intra100/AVC-Intra50: 10 bit DVCPRO HD/DVCPRO 50/DVCPRO/DV: 8 bit
Video Compression:	AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile DVCPRO HD: DV-Based Compression (SMPT 370M) DVCPRO 50/DVCPRO: DV-Based Compression (SMPT 314M) DV: DV Compression (IEC 61834-2)

Digital Audio Specification

Recording Audio Signal:	AVC-Intra100/AVC-Intra50: 48 kHz, 16 bit, 4CH DVCPRO HD/DVCPRO 50: 48 kHz, 16 bit, 4CH DVCPRO/DV: 48 kHz, 16 bit, 2CH/4CH switchable
Headroom:	20 dB/18 dB switching via menu

Video Input/Output

SDI OUT/IN (OP)*5:	BNCx1 HD SDI: 0.8 V [p-p], 75 Ω SD SDI: 0.8 V [p-p], 75 Ω
MON OUT:	BNCx1, HD SDI/SD SDI/VBS (Analog Composite) can be switched on SmatUI HD SDI: 0.8 V [p-p], 75 Ω / SD SDI: 0.8 V [p-p], 75 Ω / VBS: 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI TypeA terminal), VIERA Link not supported

Audio Input/Output

AUDIO IN:	XLR (3 pin) x 2 LINE/MIC switchable, high impedance, LINE: 0 dBu, MIC: -50 dBu/-60 dBu (switching via menu) MIC +48 V ON/OFF (switchable)
MIC IN:	XLR (3 pin) x 1 +MIC/+48 V switchable, -40 dBu/-50 dBu/-60 dBu (switching via menu)
WIRELESS IN:	25 pin, D-SUB, -40 dBu 2CH supported
AUDIO OUT:	Pin jack x 2 (CH1/CH2), Output: 316 mV, 600 Ω
PHONES OUT:	ø3.5 mm stereo mini jack x 1
Speaker:	20 mm diameter x 1

Other Input/Output

GENLOCK IN:	BNC x 1, 1.0 V [p-p], 75 Ω
TC IN/OUT:	IN: BNC x 1, 0.5 V [p-p] to 8V [p-p], 10 kΩ OUT: BNC x 1, 2.0 V ±0.5 V [p-p], low impedance (IN/OUT switching via menu)
DC IN:	XLR x 1, 4 pin, DC 12 V (DC 11.0 V to 17.0 V)
DC OUT:	4 pin, DC 12 V (DC 11.0 V to 17.0 V), Max. 1.5 A
REMOTE:	10 pin
LENS:	12 pin
VF:	20 pin
LAN*6:	100BASE-TX/10BASE-T
USB 2.0 (HOST):	Type-A, 4 pin USB ver 2.0 Standard
USB 2.0 (DEVICE):	Type-B, 4 pin USB ver 2.0 Standard
USB 2.0 (HOST)*6:	Type-A, 4 pin USB ver 2.0 Standard for Wireless Module AJ-WM30 or UPLINK USB cable

Included Accessories

Upgrade Software Key AG-SFU601G, Shoulder strap, Mount cap*7, CD-ROM

*1: When SHOOTING MODE is NORMAL on SYSTEM SETUP MENU, -3 dB setting is treated as 0dB and 18dB setting can not be active. *2: AG-SFU602G Upgrade Software Key is required.
*3: When SHOOTING MODE is LOW LIGHT on SYSTEM SETUP MENU *4: Time shown above is when you record a series of 1 shot onto P2 card. Depending on numbers of shots you record, time will get shorter than the number shown above. *5: Mounting the optional AG-YA600G HD/SDI Input Board makes this system SDI Input. (SDI OUT/IN switching via menu) *6: When Upgrade Software Key AG-SFU601G is installed, the network function of cable LAN and wireless LAN becomes effective.
*7: It is attached to the main body.

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