

Specifications

As of April, 2017

GENERAL	
Power Requirements	DC 12 V to 21.8 V (DC IN connector) DC 42 V to 57 V (PoE++ power supply)
Current Consumption	3.1 A to 5.5 A (DC IN connector) 1.2 A (PoE++ power supply)
Ambient Operating Temperature	-15 °C to 45 °C (5 °F to 113 °F) (preheating is required when -5 °C (23 °F) or less)
Ambient Operating Humidity	10% to 100% (no condensation)
Storage Temperature	-20 °C to 55 °C (-4 °F to 131 °F)
Storage Humidity	10% to 95% (no condensation)
Mass	Approx. 9.0 kg (19.84 lb)
Dimensions (W x H x D)	258 mm x 357 mm x 397 mm (10-5/32 inches x 14-1/16 inches x 15-5/8 inches) (including protrusions and cable cover)
Finish	Silver, salt resistant coating
Waterproof and Dust Proof	IP65 compliant
Maximum Permissible Wind Speed	15 m/sec: Operates normally 50 m/sec: Operation possible 60 m/sec: No damage
Wiper	Installed as standard
Heater	Installed as standard
Defroster	Installed as standard
Controller Supported	AW-RP120G, AW-RP50, AK-HRP200G • It may be necessary to upgrade the version of the controller in order to support the unit. For details on upgrading, visit the support page on the following website. < http://pro-av.panasonic.net/ >

Camera Unit	
Imaging Sensors	1/2.86-type Full-HD 3MOS
Lens	Optical 20x zoom/10x digital zoom, F1.6 to F3.4 (f=4.5 mm to 90 mm; 35 mm equivalent: 32.13 mm to 642.5 mm)
Focus	Switching between auto and manual
Focus Distance	Entire zooming range: 800 mm (2.62 ft) Wide end: 400 mm (1.31 ft)
Color Separation Optical System	3MOS
Minimum Illumination	2 lx (50 IRE, F1.6, 36 dB, without accumulation)
Horizontal Resolution	1000 TV lines Typ (Center area)
Gain Selection	Auto, 0 dB to 42 dB (1 dB steps) 37 dB to 42 dB is Super Gain Mode
Frame Mix	0 dB, 6 dB, 12 dB, 18 dB, 24 dB • This cannot be configured when the format is 1080/29.97p, 1080/23.98p, 1080/29.97PsF, 1080/23.98PsF, 1080/25p, or 1080/25PsF. • When [Iris Mode] or [Focus Mode] is set to [Auto], this cannot be set to 18 dB or 24 dB.
Electronic Shutter Speed	59.94p/59.94i 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 29.97p 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 23.98p 1/24, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 50p/50i 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 25p 1/25, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Synchro Scan	59.94 Hz 60.15 Hz to 642.21 Hz (255 steps) 50 Hz 50.15 Hz to 535.71 Hz (255 steps)
Gamma	HD, FILMLIKE1, FILMLIKE2, FILMLIKE3 0.30 to 0.75 (Manual setting)
White Balance	AWB A, AWB B, ATW, 3200K, 5600K, VAR (2000K to 15000K)
Chroma Amount Variability	OFF, -99% to 40%
Scene File	Scene1, Scene2, Scene3, Scene4
Intelligent Functions	Auto function for each of accumulation, gain, iris, electronic shutter, ND, and ATW
Output Format	1080/59.94p, 1080/29.97p ^{*1} , 1080/23.98p ^{*2} , 1080/59.94i, 1080/29.97PsF ^{*3} , 1080/23.98PsF ^{*3} , 720/59.94p, 1080/50p, 1080/25p ^{*1} , 1080/50i, 1080/25PsF ^{*3} , 720/50p

*1: Native output *2: Over 59.94i output *3: For 1080/25PsF, 50i may be displayed on the monitor screen. Furthermore, for 1080/23.98PsF and 29.97PsF, 59.94i may be displayed on the monitor screen. *4 Use of an STP (shielded twisted pair) cable is recommended. • When connecting directly to a controller without an Ethernet hub, use a cross cable.

*Specifications are subject to change without notice.

Computer requirements

As of April, 2017

CPU	Intel® Core™ 2 DUO 2.4 GHz or more recommended
Memory	For Windows 1 GB or more (2 GB or more for 64-bit editions of Microsoft® Windows®10, Microsoft® Windows®8.1, Microsoft® Windows®8, and Microsoft® Windows®7) For Mac 2 GB or more
Network function	10BASE-T or 100BASE-TX port x 1
Image display	Resolution: 1024 x 768 pixels or more Color generation: True Color 24-bit or more
Supported operating systems and web browsers	For Windows Microsoft® Windows® 10 Pro 64-bit / 32-bit *1 Windows® Internet Explorer® 11.0*1 *3 Microsoft® Windows® 8.1 Pro 64-bit / 32-bit *1 Windows® Internet Explorer® 11.0*1 *3 Microsoft® Windows® 8 Pro 64-bit / 32-bit *1 Windows® Internet Explorer® 10.0*1 *3 Microsoft® Windows® 7 Professional SP1 64-bit / 32-bit *2 Windows® Internet Explorer® 11.0 / 10.0 / 9.0 / 8.0 *3 For Mac OS X 10.11 Safari 9.0 / OS X 10.10 Safari 8.0.4 / OS X 10.9 Safari 7.0.2 / OS X 10.8 Safari 6.1.2 For iPhone For iPad iOS Standard web browsers For iPod touch For Android Android OS Standard web browsers
Other	Adobe® Reader® (for viewing the operating instructions available on the website)

*1 Use the desktop version of Internet Explorer. (Internet Explorer for Modern UI is not supported.) *2 Windows® XP compatibility mode is not supported. *3 The 64-bit version of Internet Explorer® is not supported.

For the latest information on supported OS/brower, please refer to the "service and support" on the Panasonic website (<http://pro-av.panasonic.net/en/>).

•Microsoft®, Windows®, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10 and Internet Explorer® are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
•Apple, Mac, OS X, iPhone, iPod Touch, iPad, and Safari are registered trademarks of Apple Inc., in the United States and other countries.
•Android™ is a trademark of Google Inc.

Synchronization System	
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input impedance	High impedance
Input	<ul style="list-style-type: none"> • 2 channels, XLR balanced input • Input signal level: +4 dBu/0 dBu/-20 dBu (selectable in menu) • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)
Line Input <AUDIO IN(1/2)>	<ul style="list-style-type: none"> • 4 channels, superimposed over SDI output • Embedded audio output level: FS-12 dB: -12 dBFS, FS-18 dB: -18 dBFS, FS-20 dB: -20 dBFS (selectable in menu) • Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM) • Audio compression format (IP): G.726, AAC-LC (High quality)
Output	
Input	
12V IN	XLR connector
G/L IN	BNC connector • BBS (Black Burst Sync), tri-level sync supported • Locking to a subcarrier is not possible with BBS.
Audio input	mini XLR connector (line input) #1: INPUT1 Common, #2: INPUT1 HOT, #3: INPUT1 COLD, #4: INPUT2 Common, #5: INPUT2 HOT, #6: INPUT2 COLD
Output	
Video Output	3G/HD-SDI OUT SMPTE424/SMPTE292 standards 75 Ω (BNC x 2) • OSD output is possible from the SDI OUT 1/PM connector but not from the SDI OUT 2 connector.
Input/Output	
Input/Output Connector	LAN LAN connector for IP control/video output/audio output/PoE++ power supply PoE++ (IEEE802.3bt Draft ver.2.0 standard) RS-422 CONTROL IN RS-422A EXT #1: DC GND, #2: HOT, #3: COLD, #4: 12V-OUT

Pan-tilt Head Unit	
Installation Method	Stand-alone (Desktop) or suspended (Hanging) • To ensure safety, the unit must be secured using the mount bracket supplied.
Camera/Pan-tilt Head Control	IP connecting cable • When connecting through a PoE++ hub: LAN cable*4 (category 5e or above, straight cable), max. 100 m (328 ft) • When a PoE++ hub is not used: LAN cable*4 (category 5 or above, straight cable) max. 100 m (328 ft) AW series connecting cable/standard protocol connecting cable LAN cable*4 (category 5 or above, straight cable), max. 1000 m (3280 ft)
Pan/Tilt Operation Speed	Maximum speed 60°/s or higher
Panning Range	±175° • For suspended installations, the positions of the pins that determine the movement range must be changed.
Tilting Range	-30° to 210° • Depending on the pan or tilt position, the camera may be reflected in the image. • For suspended installations, the positions of the pins that determine the movement range must be changed.
Quietness	60°/s (NC45 or less)
Vibration Correction	D.I.S.S. (Dynamic Image Stabilizing System)
Accessories	Hexagonal bolt M8 x 30 mm: 4 M8 washer: 4 Spring washer: 4 Cable cover: 1 Washer nozzle mount bracket: 1 Drop-prevention wire: 1 Drop-prevention wire mounting screw (with hexagonal socket, for unit) M4 x 10 mm: 1