Panasonic BUSINESS

Panasonic's 4K 60p/50p*1 12G-SDI Supported PTZ Camera the Industry's First*2



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Panasonic

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Factories of AVC Networks Company have receive SO14001:2004-the Environ 4001:2004-the Environmental Managemen ication. (Except for 3rd party's peripherals.)

For more information, please visit Panasonic web site https://pro-av.panasonic.net/en/qr/



Contact Information

Broadcast and

Professiona AV Website



SP-UE150PE2

AW-UE150W [White Model] AW-UE150K[Black Model] **4K Integrated Camera** AW-RP150GJ

Remote Camera Controller

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p. *2: Internal investigation, Oct. 2018

AW-UE150

4K 60p/50p*1 Output, High-Magnification Zoom and Wide-Angle Shooting for Flexible Video Production





AW-UE150W Integrated Camera [White Model]

AW-UE150K 4K Integrated Camera [Black Model]

High-Quality 4K 60p/50p*1 Shooting

3840 x 2160 4K output and 59.94p/50p*1 shooting achieve extremely smooth video, even in live sports and other environments containing rapid movement.

Output format

4K	2160/59.94p, 2160/50p, 2160/29.97p* ² , 2160/25p* ² , 2160/24p* ² , 2160/23.98p* ²
HD	1080/59.94p, 1080/50p, 1080/29.97p*², 1080/29.97PsF, 1080/25p*², 1080/25PsF, 1080/23.98p*³, 1080/24p*², 1080/23.98p*², 1080/23.98PsF, 1080/59.94i, 1080/50i
	720/59.94p, 720/50p

Native output

► 1.0-type MOS Sensor Mounted

The large 1.0-type MOS sensor enables high sensitivity shooting with low noise. The sensor boasts a light-capturing area that is approximately four times larger than that of the 1/2.3-type sensor to guarantee a wide dynamic range.

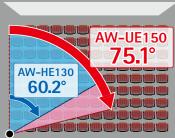
Optical 20x Zoom / Industry's First* 75.1° Horizontal Wide-Angle Shooting

Adding "i zoom" to our optical 20x zoom, maintains high resolution while enabling ultra-high resolution 32x zoom in HD mode and 24x zoom in 4K mode. This enables distant subjects to be captured clearly. Furthermore, 75.1° horizontal wide-angle shooting enables capture of the entire area, even when installation space is limited. * Internal investigation, Nov. 2018.



Images are simulated

Horizontal 75.1° Shooting Range



The next-generation PTZ camera supports high-guality video production in stadium, lecture halls, churches and other venues. Smooth and high-guality 4K 60p/50p*1, high-magnification zoom and a wide shooting angle expand the range of the PTZ camera's applications. The camera is equipped with a variety of interfaces and supports simultaneous 4K/HD operation which allows for versatility in current and future production systems.



HDR (HLG) Support*4

The camera supports HDR (High Dynamic Range) to prevent blown-out highlights and blocked-up shadows and enable picture quality close to that of the naked eye. Conforms to BT.2020.



HDR Mode OFF



HDR Mode ON Images are simulated

Optical Image Stabilizer (OIS) Loaded

Vibrations of the mounted surface caused by doors opening and closing, audio systems and other installed equipment are automatically corrected to ensure stable shooting.

Night Mode Support

Equipped with Night Mode for infrared shooting. The use of IR rays in low-light situations enables shooting in situations that would normally be difficult, such as when capturing wildlife (image output is black and white).



Images are simulated

Incredible Pan and Tilt Performance

Pan and tilt operate from a minimum speed of 0.08°/s to a maximum of 180°/s in high-speed mode. This is approximately 3 times the speed of our current product*5 for rapid capture of the intended target. Furthermore, a low noise level of NC35 or less has been ensured when operating in normal mode, which is perfect for shooting in quiet environments*6.

Comparative	Approx. 3 times	
Our current product ^{*5}	Maximum speed of 60°/s	the conventiona speed
AW-UE150W/K	Maximum speed of 180°/s (in high-	speed operation mode)

Cropping Function

Images shot in 4K can be output in their entirety while simultaneously cropping parts of those images. The cropping position can be specified from a maximum of 3 locations to enable simple operation from the Remote Camera Controller AW-RP150GJ, a web browser or other operations screen





* Images are simulated



Multiple Interfaces Supported

A wide range of outputs are supported: 12G-SDI, 3G-SDI, HDMI, IP and even Optical Fiber output. The addition of 4K/HD simultaneous output guarantees the right output for the operation at hand. 4K video can be down converted to HD directly within the camera.



* Images are simulated

- *1: Actual output format is UHD (3840 x 2160) 59.94p/50p.
- *2: Native output.
- *3. It denotes "1080/23.98n over 59.94i"
- *4: The display color space does not completely comply with BT.2020. The color balance is shifted to display according to the BT.2020 color gamut.
- *5: Comparison with our current product, AW-HE130W/K.
- *6: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode.
- *7: Abbreviation of Power over Ethernet Plus Plus. Conforms to IEEE802.3bt.

► WEB UI Improved

Camera IP image output, settings and control can be performed using a web browser on a computer connected via an IP network. In addition to PCs and Macs, iPads, iPhones*1, Androids and other mobile devices can be used for operation, and this pursuit of easy-to-use interfaces has enabled smooth camera control from remote locations.

Camera control screen * Windows operation depicted.



*For supported browsers, see specifications on page 10. *1: Planned for future support

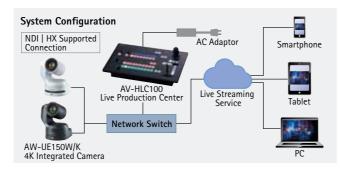
AW-RP150GJ Connection for Large-Scale **Production Systems**

IP connection from the Remote Camera Controller AW-RP150GJ through a HUB (switching hub) enables control of up to 200 AW-UE150W/K units. Furthermore, a single AW-UE150W/K unit can be controlled from up to 5 AW-RP150GJ units.



NDI | HX Compatibility for Excellent Video Streaming Quality

The AW-UE150W/K can be upgraded to an NDI | HX compatible model if purchasing a license. Highly efficient NDI | HX compatibility enables high-quality video to be encoded and transmitted in real-time and input signals to be directly sent to a switcher (AV-HLC100) without the need for an IP decoder.



*4K image output not supported in NDI|HX mode. * Contact your local Panasonic reseller for further information NDI|HX, a technology of NewTek, Inc.

Direct Broadcast via RTMP (Real-Time Messaging Protocol)

RTMP (Real-Time Messaging Protocol) is supported to enable direct upload of video to live-streaming services such as YouTube Live and Facebook Live. This means a live stream can be broadcast directly from the camera.





Optional Products

PC Software for Remote Camera Support

Supporting Lecture Capture with Auto Tracking function

Auto Tracking Software Key Stand-Alone and Web App Versions AW-SF100*1 Server Version AW-SF200*1 2 Additional Licenses AW-SF202 AW-SF202*1 3 Additional Licenses AW-SF203 AW-SF203*1	 Motion detection and face det video streaming from camera a regardless of where the persor sensors and other devices are GUI designed for intuitive ope Operation with IP connection cameras in remote classroom. AW-SF100 allows a single PTZ either a stand-alone or web ap The stand-alone version is easy
AW-SF202 ^{*1}	 AW-SF100 allows a single l
3 Additional Licenses AW-SF203	either a stand-alone or wel

or web application version. AW-SF200 operates on a server. on is easy to set up by installing software on a PC^{*2} and connecting PTZ cameras. • The web application version enables camera control from a tablet, smartphone, desktop PC, etc. A 30-day Free Trial is Available AW-SF200 enables simultaneous auto tracking and centralized control of multiple cameras.*3

*1: Connection with the AW-UE150W/K is planned for future support *2: When the web application version is used, Auto Tracking Software needs to be installed on an HTTP server.

*3: Up to four cameras per server can be controlled simultaneously * Depending on the shooting environment, the system may not be able to detect or track the target correctly. Please use this software in an environment where the adjustment work can be performed by the operator to deal with errors in detection and auto tracking. * There is a 30-day free trial available for the Auto Tracking Software. Please read carefully the precautions for this software and check if it works correctly in your operating environment before you purchase "Auto Tracking Software Activation Key". For further information, please see "Software Download" on the Panasonic website <https://pro-av.panasonic.net/sec

. The face recognition function is based upon the face recognition software developed by PUX Corporation

Control multiple PTZ Cameras from PC

PTZ Control Center Free software

 Video can be checked during centralized management of multiple cameras.



- · Camera control enabled via GUI for image quality adjustment, pan, tilt,
- zoom, etc. Touch panel operations are supported.
- · Clicking the preset button attached to thumbnails enables simple recall of presets.
- Pan, tilt, zoom and other operations can also be controlled using game controllers made by other companies.

* For further information on the optional software, please see "Software Download" on the Panasonic website <a href="https://oro-av.panasonic.net/second-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackground-bandbackgr

Optional Products



Control Assist Camera AW-HEA10W/K*4

AK-HRP1005GJ*4

*5: Some operation functions are restricted during connection with the AW-UE150W/K

Compatible Third-Party Equipment

Finisar Corporation 8G Fibre Channel (8GFC) 10km SEP+ Optical Transceiver FTLF1428P3BNV Operation-verified in Oct. 2018



AJA Video Systems 1-Channel Single-Mode LC Fiber to 12G-SDI Receiver FiDO-R-12G rified in Oct. 2018 Operation

16G Fibre Channel (16GFC) 10km SFP+ Optical Transceive FTLF1429P3BNV

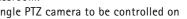
Blackmagic Design Teranex Mini Optical to HDMI 12G

Third-Party Inquiries

<Finisar Corporation> https://www.finisar.com/how-buy •<AJA Video Systems, Inc.> TEL: +1-530-274-2048 MAIL: Sales@aja.com https://www.aja.com/where-to-buy •<Blackmagic Design> TEL: +61 3 9682 4770 https://www.blackmagicdesign.com/company e<PLANET Technology Corp.> https://www.planet.com.tw/en MAIL: sales@planet.com.tw

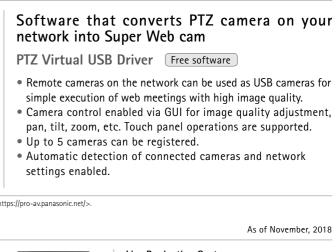
face detection technologies using camera achieve smooth auto tracking he person is facing. Installation of ices are not necessary.

- itive operation.
- nection enables installation/control of





AW-SF200 Main View





*4: Connection with the AW-UE150W/K is planned for future support. Contact your sales representative for further information on when support will be available for this feature. Use may require a software version update



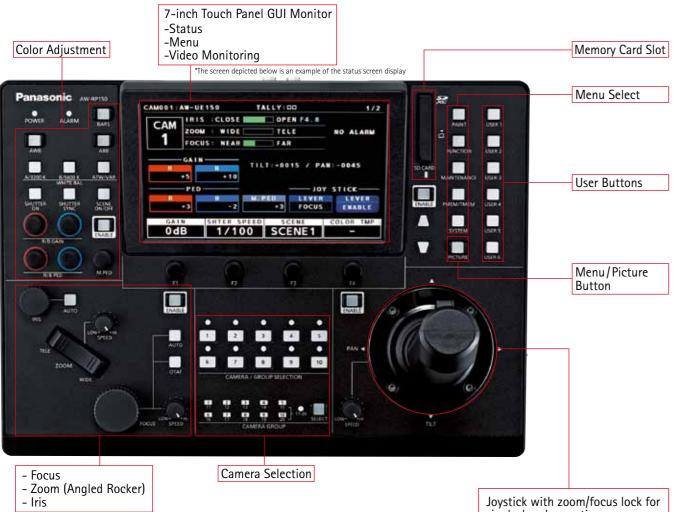
PLANET Technology Corp. Layer 3 8-Port 10/100/1000T 802.3bt PoE + 2-Port 10/100/1000T + 2-Port 10G SFP+ Managed Switch GS-5220-8UP2T2X

AW-RP150GJ

Intuitive Camera Control for Ease of Use and One-Person Operation



A ZOOM/FOCUS rocker mounted on the joystick manages pan and tilt operations for zoom and focus control and intuitive single-handed operation. The built-in touch display allows for easy and quick operation of all essential camera functions.



Rear View

PoE+* support enables power supply via a LAN cable. Additionally, a dual system GPIO (general purpose input/output) terminal is equipped as standard.

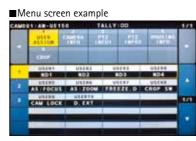


single-hand operation



► Touch Panel GUI for High-Quality **Operability and Visibility**

The touch panel GUI monitor supports camera image display during shooting as well as a variety of operations. The panel is equipped only with buttons that are frequently used, with menu and camera switching operations, indicators and other functions consolidated in the touch panel GUI.



Touch Focus Function Equipped

The focus is guickly aligned to the area touched by tapping the screen. In addition, the Focus in Red display assists with aligning focus by framing the part that is in-focus in red.



Camera Settings Copied to Multiple Cameras

Scene files, system settings files and other camera settings can be saved on the AW-RP150GJ SD card. These settings can then be copied to multiple cameras via the SD card. This massively reduces on-location setup time when shooting at events with large numbers of cameras.



Remote Camera Controller AW-RP150GJ-Compatible Panasonic Remote Cameras

For indoor use 4K 60p/50p*1 output, 75.1° horizontal wide-angle output shooting 4K Integrated Camera AW-UE150W/K

AW-HN40HW/HK*2

HD Integrated Camera AW-HE130W/K*2 NDI | HX Compatible Premiu HD Integrated Camera AW-HN130W/K*

For indoor use

For indoor use

For indoor use High portability and workability HD Integrated Camera AW-HE40SW/SK [SDI Model]*2 AW-HE40HW/HK [HDMI Model]*2

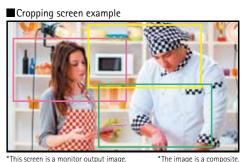
HD Integrated Camera NDI | HX Compatible HD Integrated Camera

AW-HN38HW/HK

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p.

Smooth Creation of Cropped Images

The cropping function loaded on the AW-UE150W/K can be controlled from the AW-RP150GJ. Images output from the AW-UE150W/K to the monitor can be cropped in three different locations displayed with colored frames (yellow/ green/magenta), and fine-tuned with the joystick as you watch. Required images can be cropped precisely and simply.



Preset Memory for Simple Camera Control

Registration of the camera angle and other remote camera settings allows them to be easily recalled from the touch panel GUI monitor. The movement speed for play back the preset memory can be set by the specified speed or time.

- <Supported Presets>
- Pan and tilt position
- Focus position
- White balance settings
- •Zoom position
- •Lens aperture (manual iris only)
- Gain
- •Crop position coordinates

Tracing Memory for Memory and Recall of **Camera** Operations

The tracing memory function records a series of operation performed for the remote camera. Up to 5 minutes for 10 operations can be memorized for a single camera, and that trajectory can then be reproduced.

- <Supported Presets>
- •Pan and tilt position
- Focus position
- •White balance settings •Gain
- •Zoom position
- •Lens aperture (manual iris only)

► Multiple-Camera Connection Supported for Large-Scale Systems

IP connection via a switching hub can be used to control up to 200 remote cameras. Up to 5 remote cameras can be controlled in a serial connection.

As of November, 2018 For indoor use IP transfer output, 1/2.86-type 3MOS sensor-equipped HDMI, USB and IP transfer for 4K image output 4K Integrated Camera AW-UE70W/K*2 NDI | HX Compatible 4K Integrated Camera AW-UN70W/K*2 For outdoor use High sensitivity, S/N ratio AW-HE38HW/HK*2 and resolution with IP65 NDI | HX Compatible Entry-level HD Integrated Camera waterproofing and dustproofing Full-HD Outdoor Integrated Camera AW-HR140*2

*2: Connection with the AW-RP150GJ is planned for future support. Contact your sales representative for further information on when support will be available for this feature. Use may require a software version update

Application Examples

Application 01: 4K Studio

Studio shooting of smooth, high-quality 4K 60p/50p^{*1} images The AW-UE150W/K is capable of 4K 60p/50p*1 output for high-quality remote shooting in studio operations where high image quality is required. A large tally lamp has been equipped to make on-air cameras easily identifiable, even from far away.



Application 02: Live Streaming

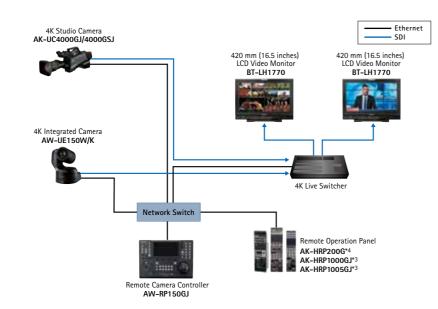
RTMP and NDI HX support*2 enable streaming workflow to be optimized to the situation Video being shot from a single camera can be uploaded directly from the AW-UE150W/K to a live-streaming service via RTMP. For multi-camera setups, use NDI|HX*2 to connect to the Live Production Center AV-HLC100*3. Multiple AW-UE150W/K units can be controlled from the AV-HLC100*3 for smooth live streaming.

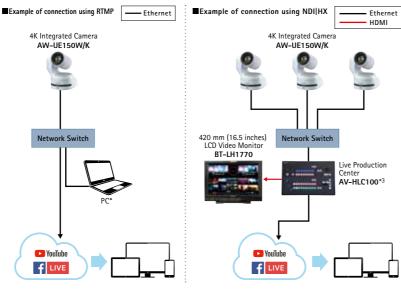


Application 03: Halls

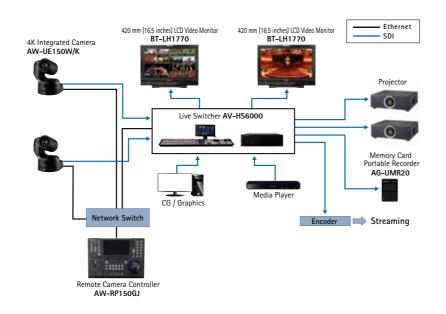
High-magnification zoom and wide-angle shooting ensure targets are captured clearly in large venues The large 1.0-type MOS sensor enables high-sensitivity shooting with little noise in halls and other dark locations. The optical 20x zoom further ensures that even far-away targets shot in large venues are captured clearly. 75.1° horizontal wide-angle shooting allows incredible flexibility in shooting location while still being





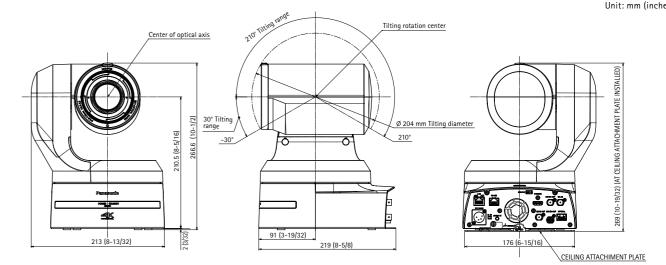


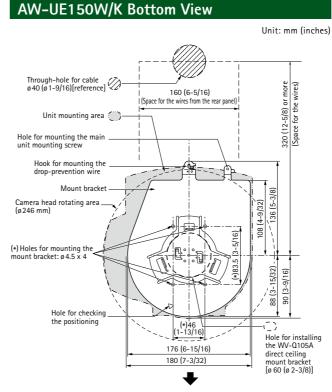
*A computer is required for server connection settings.



Dimensions

AW-UE150W/K Dimensions





The front panel of the unit on this side

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p

*2: Contact your Panasonic sales representative for further details.

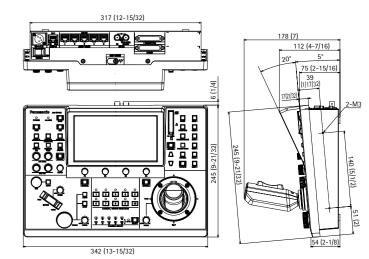
tion with the AW-UE150W/K is planned for future support. Contact your sales representative for further information on when support will be available for this feature. Use may require a software version update. *4: AW-UE150W/K not supported.

8

Unit: mm (inches)

AW-RP150GJ Dimensions

Unit: mm (inches)



Specifications

AW-UE150W/K

<gener <="" th=""><th>AL></th><th></th></gener>	AL>	
Power Requirements:		12 V DC (10.8 V to 13.2 V)
PoE++:		IEEE802.3bt standard: DC 42 V to 57 V (Camera Input)
Current Consumption:		4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
Ambient Operating Temperature:		0 °C to 40 °C (32 °F to 104 °F)
Ambient Oper	ating Humidity:	20 % to 90 % (no condensation)
Storage Terr	perature:	–20 °C to 50 °C (–4 °F to 122 °F)
Mass:		Approx. 4.2 kg (9.24 lb) (excluding mount bracket)
Dimensions	(W x H x D):	213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches) (excluding protrusions, direct ceiling mount bracket)
Finish:		AW-UE150WP/AW-UE150WE: Pearl white AW-UE150KP/AW-UE150KE: Black
Controller S	upported*1:	AW-RP150GJ
<camera< td=""><td>Unit></td><td></td></camera<>	Unit>	
Imaging Ser	sors:	1-type 4K MOS×1
Lens:		Motorized Optical 20x zoom, F2.8 to F4.5 [f=8.8 mm (11/32 inches) to 176.0 mm (6-15/16 inches); 35 mm (1-3/8 inches) equivalent: 24.5 mm (31/32 inches) to 490.0 mm (19-9/32 inches)]
Zoom:		 Optical zoom: 20x i.Zoom: UHD 24x, FHD 32x Digital zoom: 10x
Conversion	Lens:	Not supported
Angle of Vie	w Range:	Horizontal angle of view: 75.1° (wide) to 4.0° (tele) Vertical angle of view: 46.7° (wide) to 2.3° (tele) Diagonal angle of view: 82.8° (wide) to 4.6° (tele)
Optical Filte	r:	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")
Focus:		Switching between auto and manual
Focus Distar	nce:	Entire zooming range: 1000 mm (3.3 ft) Wide end: 100 mm (0.33 ft)
Color Separatio	n Optical System:	1M0S
Standard Se	nsitivity:	F9, 2000 lx (When normal mode is selected)
Minimum II	umination:	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
S/N:		60 dB or more
Horizontal F	lesolution:	1600 TV lines Typ (Center area)
Gain Selecti	on:	Auto, 0 dB to 36 dB*2 Super Gain function equipped : +37 dB to 42 dB
Frame Mix*3	:	0 dB, 6 dB, 12 dB, 18 dB, 24 dB
Electronic	59.94p/59.94i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Shutter Speed:	29.97p	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
	23.98p/24p	1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
	50p/50i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
	25p	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Synchro Scan:	59.94p/59.94i	60.00 Hz to 7200 Hz
Scan.	29.97p	30.00 Hz to 7200 Hz
	23.98p/24p	24.00 Hz to 7200 Hz
	50p/50i	50.00 Hz to 7200 Hz
	25p	25.00 Hz to 7200 Hz
Gamma:		HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3/ FILM REC / VIDEO REC / HLG
White Balance:		ATW : 3200K, 5600K ATW Speed : Normal / Slow / Fast AWB : AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)
Chroma Amount Variability:		
Scene File:		Scene1, Scene2, Scene3, Scene4
Output Format:	4K	2160/59.94p, 2160/50p, 2160/29.97p*i, 2160/25p*i, 2160/24p*i, 2160/23.98p*i
	HD	1080/59.94p, 1080/50p, 1080/29.97p*4, 1080/29.97PsF, 1080/25p*4, 1080/25PsF, 1080/23.98p*5, 1080/24p*6, 1080/23.98p*4, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p

<Synchronization System>

,		1
		Internal / External synchronization (BBS / Tri-level sync)
<input/>		
Input Conne	ector:	DC 12 V IN, G/L IN (BNC) • BBS (Black Burst Sync), tri-level sync supported
<outpu<sup>®</outpu<sup>	Г>	
Video Output:	HDMI	HDMI 2.0 standard 4:2:2/10bit • HDCP is not supported. • Viera Link is not supported.
	12G-SDI OUT	SMPTE 2082-1 standard / 75 Ω (BNC x 1)
	3G-SDI OUT	SMPTE292 / 75 Ω (BNC x 1) • Level-A/Level-B supported
	MONI OUT	SMPTE292 / 75 Ω (BNC x 1)
	Optical Fiber	SFP+ standard Single Fiber • The signal sent is the same as 12G-SDI OUT. • This unit does not support input by optical signals.
<input 0<="" td=""/> <td>OUTPUT></td> <td></td>	OUTPUT>	
Input/	LAN	LAN connector for IP control (RJ-45)
Output Connector:	RS-422	CONTROL IN RS-422A (RJ-45)
	MIC/LINE input	ø 3.5 mm stereo mini jack Input impedance: High impedance • During MIC input Supported mic: Stereo mic (plug-in power, on/off switching via menu) Supply voltage: 2.5 V ± 0.5 V Mic input sensitivity: Approx40 dBV ± 3 dBV (0 dB=1 V/Pa, 1 kH2) • During LINE input Input Level: Approx10 dBV ± 3 dBV

<Pan-tilt Head Unit>

	t Head Uni	·		
Camera/Pan-tilt Head Control:		 IP connecting cable LAN cable^{es+}: (category 5e or above, straight cable / crossover cable) max. 100 m (328 ft) 		
		AW protocol connecting cable LAN cable ⁴⁶ (category 5e or above, straight cable) max. 1000 m (3280 ft)		
Installation	Method:	Stand-alone (Desktop) or suspended (Hanging)*		
Pan/tilt Operation Speed:		Minimum speed 0.08°/s Maximum speed 60°/s or higher*º • Maximum speed is 180°/s in high-speed mode		
Panning Ra	nge:	±175°		
Tilting rang	e:	-30° to 210°*10		
Quietness:		NC35 or less		
<suppor< td=""><td>ted operat</td><td>ing systems and web browsers*11></td></suppor<>	ted operat	ing systems and web browsers*11>		
Supported operating systems and web browsers:	Windows	Microsoft® Windows® 7, 10 Windows® Internet Explorer® 11 (64-bit/32-bit) Microsoft Edge Google Chrome		
	Mac	Mac OS 10.13, Mac OS 10.12, Mac OS 10.11, Safari 11, Google Chrome		
	iPhone / iPad	iOS 11.4.1 Google Chrome		
<ip strea<="" td=""><td>aming></td><td></td></ip>	aming>			
Image Strea	aming Mode:	JPEG (MJPEG), H.264, H.265		
Image Reso	lution:	3840×2160, 1920×1080, 1280×720, 640×360, 320×180		
Image Transmission setting (JPEG):		Frame Rate: Maximum 30 fps Image quality (Fine / Normal)		
Image Transmission Setting (H.264):		Image quality (Motion priority / Image quality priority) UHD 60 fps / 50 fps		
		Transmission Type: Unicast port (AUTO) Unicast port (MANUAL) Multicast port		
		Transmission Priority Constant bit rate		

Frame rate Best effort

Image Transmission Setting (H.264):	Frame Rate	Audio Compression Type: AAC-LC, 48 kHz / 16 bit / 2ch	
	[60Hz] 5fps/15fps/30fps/60fps (UHD: 30fps, 60fps) [50Hz] 5fps/12.5fps/25fps/50fps (UHD: 25fps, 50fps) ■Max Bit Rate	Supported Protocol:	 IPv6 : TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP IPv4 : TCP / IP, UDP / IP, HTTP, HTTPS, RTSP, RTP / RTCP, DHCP, DNS, DDNS, NTP, UPnP, IGMP, ICMP, ARP, RTMP
	HD: 512kbps/768kbps/1024kbps/1536kbps/2048kbps/ 3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/ 12288kbps/14336kbps/16384kbps/20480kbps/24576kbps/ 32768kbps/40960kbps/51200kbps/76800kbps UHD: 12800kbps/25600kbps/51700kbps/76800kbps	<other function=""></other>	
		NDI support*12:	NDI HX
		Tally LED display color:	red / green
Image Transmission Setting (H.265):	 Image Transmission Type: Unicast port (AUTO) Unicast port (MANUAL) Multicast port Frame Rate [60H2] 30fps [50H2] 25fps Max Bit Rate 8192kbps/12800kbps/25600kbps/51200kbps/76800kbps 		

*1: AW-RP50, AW-RP120G, AK-HRP1000GJ and AK-HRP1005GJ connection with the AW-UE150W/K is planned for future support. Contact your sales representative for further information on when support will be available for this feature. Use may require a software version update. *2: 1 dB step increments can be set. *3: This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/24p, 2160/24p, 2160/29.97p, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1080/25.95, 1

AW-RP150GJ

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Power Requirements:		12 V DC (10.8 V to 13.2 V)
PoE+:		IEEE802.3at standard: DC 42 V to 57 V (Camera Input)
Current Consumption:		1.0 A (Connector Input) 0.6 A (PoE+ power supply)
Ambient Opera	ting Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Allowable H	lumidity:	20% to 90% (no condensation)
Storage Ten	nperature:	-20 °C to 50 °C (-4 °F to 122 °F)
Weight:		Approx. 3.2 kg (7.05 lb)
Dimensions	(W x H x D):	342 mm x 178 mm x 245 mm (13-15/32 inches x 7 inches x 9-21/32 inches) (excluding protrusions)
Connection Supported Equipment:	IP/RS422	AW-UE150W/K, AW-HR140*', AW-HE130W/K*', AW-HN130W/K*', AW-UE70W/K*', AW-UN70W/K*', AW-HE40 Series*', AW-HN40HW/HK*', AW-HE38HW/HK*', AW-HN38HW/HK*'
<input 0<="" td=""/> <td>utput Con</td> <td>nectors></td>	utput Con	nectors>
Input:	DC 12 V IN	XLR 4-pin
	3G-SDI IN	SMPTE292 / 75 Ω (BNC x 1) Supported formats: 1080/59.94p ¹⁰ , 1080/50p ¹⁰ , 1080/59.94i, 1080/50i, 1080/23.98p, 1080/25p, 1080/23.98PsF, 1080/25PsF
Output:	ACTIVE THRU OUT	SMPTE292 / 75 Ω (BNC x 1)
Input/	IP CONT	100BASE-TX
Output:		PoE+ input
		Connection cable: LAN cable, max. 100 m (328 ft) • When connecting the unit via a switching hub: Straight cable or a cross cable (category 5 cable), STP (Shielded Twisted Pair) cable recommended • When connecting the unit directly: Crossover cable (category 5 cable), STP (Shielded Twisted Pair) cable recommended
	SERIAL CONT (RJ-45):	RS-422 (control signals for remote cameras), TALLY OUT
		Connecting cable: Straight cable (category 5e or better shielded cable), max. 1000 m (3280 ft)
		TALLY OUT: Open collector output (negative logic) Maximum voltage resistance DC 24 V, Maximum current 50 mA

Input/ Output:	TALLY/ GPIO 1	D-sub 25-pin, female, inch thread
		TALLY IN : 10 inputs (for receiving photocoupler signals)
		GPI : 6 inputs (for receiving photocoupler signals) GPIO : 5 inputs (for receiving photocoupler signals) or 5 outputs (open collector outputs, negative logic) • Input/output switched with menu settings
	GPIO 2	D-sub 25-pin, female, inch thread
		GPI : 10 inputs (for receiving photocoupler signals) GPI0 : 10 inputs (for receiving photocoupler signals) or 10 outputs (open collector outputs, negative logic) • Input/output switched with menu settings Reserve connectors: 2 connectors (For future expansion feature)
LCD Display	r:	7-inch Touch Panel GUI Monitor (WVGA (800×480))
SD Memory	Card Slot :	SDHC / SDXC Memory Card Slot x 1
<connec< td=""><td>tion Specif</td><td>Fications ></td></connec<>	tion Specif	Fications >
No. of Conne	ctable Cameras:	200 (IP), 5 (RS422)
No. of Camera	Selection Buttons:	10
No. of Camera Groups:		20 (10 units per 1 group)
<memor< td=""><td>y></td><td></td></memor<>	y>	
Preset Memory:	No. of memory presets	100
Tracing	No. of cameras	Cam1 to Cam10
Memory:	Recording time, no. of memory settings	Maximum 5 min. total per camera, maximum of 10 settings per camera
<0ther F	unctions>	
No. of User As	signable Buttons:	6 + up to 10 on the LCD menu
Pan / Tilt Spe	ed Adjustment:	7 levels
Tally LED Display Color:		green / red

*1: Connection with the AW-RP150GJ is planned for future support. Contact your sales representative for further information on when support will be available for this feature. Use may require a software version update. *2: Level-A support only.