

Specifications

AW-UE150W/K

<GENERAL>

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 Operating Humidity:	20 % to 90 % (no condensation)
Storage Temperature:	-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 Supported:	AW-RP150GJ, AW-RP50 [†] , AK-HRP1000GJ [†] , AK-HRP1005GJ [†]

<Camera Unit>

Imaging Sensors:	1-type 4K MOSx1										
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:	<ul style="list-style-type: none"> Optical zoom: 20x i.Zoom: UHD 24x, FHD 32x Digital zoom: 10x 										
Conversion Lens:	Not supported										
Angle of View 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 Filter:	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")										
Focus:	Switching between auto and manual										
Focus Distance:	Entire zooming range: 1000 mm (3.3 ft) Wide end: 100 mm (0.33 ft)										
Color Separation Optical System:	1MOS										
Standard Sensitivity:	F9, 2000 lx (When normal mode is selected)										
Minimum Illumination:	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)										
S/N:	60 dB or more										
Horizontal Resolution:	1600 TV lines Typ (Center area)										
Gain Selection:	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 Shutter Speed:	<table border="1"> <tr> <td>59.94p/59.94i</td> <td>1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000</td> </tr> <tr> <td>29.97p</td> <td>1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000</td> </tr> <tr> <td>23.98p/24p</td> <td>1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000</td> </tr> <tr> <td>50p/50i</td> <td>1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000</td> </tr> <tr> <td>25p</td> <td>1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000</td> </tr> </table>	59.94p/59.94i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000	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
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Synchro Scan:	<table border="1"> <tr> <td>59.94p/59.94i</td> <td>60.00 Hz to 7200 Hz</td> </tr> <tr> <td>29.97p</td> <td>30.00 Hz to 7200 Hz</td> </tr> <tr> <td>23.98p/24p</td> <td>24.00 Hz to 7200 Hz</td> </tr> <tr> <td>50p/50i</td> <td>50.00 Hz to 7200 Hz</td> </tr> <tr> <td>25p</td> <td>25.00 Hz to 7200 Hz</td> </tr> </table>	59.94p/59.94i	60.00 Hz to 7200 Hz	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
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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:	OFF, -99 % to 99 %										
Scene File:	Scene1, Scene2, Scene3, Scene4										
Output Format:	<table border="1"> <tr> <td>4K</td> <td>2160/59.94p, 2160/50p, 2160/29.97p*, 2160/25p*, 2160/24p*, 2160/23.98p*</td> </tr> <tr> <td>HD</td> <td>1080/59.94p, 1080/50p, 1080/29.97p*, 1080/29.97PsF, 1080/25p*, 1080/25PsF, 1080/23.98p*, 1080/24p*, 1080/23.98p*, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p</td> </tr> </table>	4K	2160/59.94p, 2160/50p, 2160/29.97p*, 2160/25p*, 2160/24p*, 2160/23.98p*	HD	1080/59.94p, 1080/50p, 1080/29.97p*, 1080/29.97PsF, 1080/25p*, 1080/25PsF, 1080/23.98p*, 1080/24p*, 1080/23.98p*, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p						
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<Synchronization System>

Internal / External synchronization (BBS / Tri-level sync)

<INPUT>

Input Connector:	DC 12 V IN, G/L IN (BNC) • BBS (Black Burst Sync), tri-level sync supported
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<OUTPUT>

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/OUTPUT>

Input / Output Connector:	LAN	LAN connector for IP control (RJ-45)
	RS-422	CONTROL IN RS-422A (RJ-45)
	MIC/LINE input	<ul style="list-style-type: none"> 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: Approx. -40 dBV ± 3 dBV (0 dB=1 V/Pa, 1 kHz) • During LINE input Input level: Approx. -10 dBV ± 3 dBV

<Pan-tilt Head Unit>

Camera/Pan-tilt Head Control:	IP connecting cable • LAN cable ⁶ *: (category 5e or above, straight cable / crossover cable) max. 100 m (328 ft)
	AW protocol connecting cable LAN cable ⁶ (category 5e or above, straight cable) max. 1000 m (3280 ft)
Installation Method:	Stand-alone (Desktop) or suspended (Hanging)* ⁹
Pan/tilt Operation Speed:	Minimum speed 0.08°/s Maximum speed 60°/s or higher* ⁹ • Maximum speed is 180°/s in high-speed mode
Panning Range:	±175°
Tilting range:	-30° to 210°* ¹⁰
Quietness:	NC35 or less

<Supported operating 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 Streaming>

Image Streaming Mode:	JPEG (MJPEG), H.264, H.265
Image Resolution:	3840x2160, 1920x1080, 1280x720, 640x360, 320x180
Image Transmission setting (JPEG):	Frame Rate: Maximum 30 fps Image quality (Fine / Normal)
Image Transmission Setting (H.264):	<ul style="list-style-type: none"> ■ Image quality (Motion priority / Image quality priority) UHD 60 fps / 50 fps ■ Transmission Type: <ul style="list-style-type: none"> Unicast port (AUTO) Unicast port (MANUAL) Multicast port ■ Transmission Priority <ul style="list-style-type: none"> Constant bit rate Frame rate Best effort

Image Transmission Setting (H.264):	<ul style="list-style-type: none"> ■ Frame Rate [60Hz] 5fps/15fps/30fps/60fps (UHD: 30fps, 60fps) [50Hz] 5fps/12.5fps/25fps/50fps (UHD: 25fps, 50fps) ■ Max Bit Rate 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
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Image Transmission Setting (H.265):	<ul style="list-style-type: none"> ■ Image Transmission Type: Unicast port (AUTO) Unicast port (MANUAL) Multicast port ■ Frame Rate [60Hz] 30fps [50Hz] 25fps ■ Max Bit Rate 8192kbps/12800kbps/25600kbps/51200kbps/76800kbps
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Audio Compression Type:	AAC-LC, 48 kHz / 16 bit / 2ch
Supported Protocol:	<ul style="list-style-type: none"> ■ 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

<Other Function>

NDI support*12:	NDI HX
Tally LED display color:	red / green

*1: 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, 2160/25p, 1080/29.97p, 1080/23.98p(59.94i), 1080/29.97PsF, 1080/23.98PsF, 1080/25p, 1080/25PsF. *4: Native output. *5: It denotes "1080/23.98p over 59.94i". *6: Use of an STP (shielded twisted pair) cable is recommended. *7: Category 6 or more is used when sending 4K images. *8: To ensure safety, the unit must be secured using the mount bracket supplied. *9: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode. *10: Depending on the pan or tilt position, the camera may be reflected in the image. *11: Supported OS indicated are for browsers current as of October 2018. See "Service and Support / PASS" on the Panasonic website (<https://pro-av.panasonic.net/en/>) for the latest information on browser support. *12: Contact your local Panasonic vendor for further information.