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| <b>Power Requirements</b>              | 12 V DC (10.8 V to 13.2 V)   |
| <b>PoE++</b>                           | IEEE802.3bt standard: DC 42 V to 57 V (Camera Input)   |
| <b>Current Consumption</b>             | 4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)   |
| <b>Ambient Operating Temperature</b>   | 0 °C to 40 °C (32 °F to 104 °F)  |
| <b>Ambient Operating Humidity</b>      | 20 % to 90 % (no condensation)   |
| <b>Storage Temperature</b>             | -20 °C to 50 °C (-4 °F to 122 °F)  |
| <b>Mass</b>                            | Approx. 4.2 kg (9.24 lb) (excluding mount bracket)   |
| <b>Dimensions (W x H x D) (mm)</b>     | 213 mm x 267 mm x 219 mm<br>(excluding protrusions, direct ceiling mount bracket)  |
| <b>Dimensions (W x H x D) (inch)</b>   | 8-3/8 inches x 10-1/2 inches x 8-5/8 inches<br>(excluding protrusions, direct ceiling mount bracket)   |
| <b>Finish</b>                          | AW-UE150WP/AW-UE150WE: Pearl white<br>AW-UE150KP/AW-UE150KE: Black   |
| <b>Controller Supported*1</b>          | AW-RP150GJ   |
| <b>Camera Unit</b>                     | -  |
| <b>Imaging Sensors</b>                 | 1-type 4K MOS×1  |
| <b>Lens</b>                            | Motorized Optical 20x zoom, F2.8 to F4.5<br>[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)] |
| <b>Zoom</b>                            | <ul style="list-style-type: none"> <li>• Optical zoom: 20x</li> <li>• i.Zoom: UHD 24x, FHD 32x</li> <li>• Digital zoom: 10x</li> </ul>   |
| <b>Conversion Lens</b>                 | Not supported  |
| <b>Angle of View Range</b>             | Horizontal angle of view: 75.1° (wide) to 4.0° (tele)<br>Vertical angle of view: 46.7° (wide) to 2.3° (tele)<br>Diagonal angle of view: 82.8° (wide) to 4.6° (tele)                      |
| <b>Optical Filter</b>                  | Through, 1/4, 1/16, 1/64, IR through (IR through is used as “Night mode”)  |
| <b>Focus</b>                           | Switching between auto and manual  |
| <b>Focus Distance</b>                  | Entire zooming range: 1000 mm (3.3 ft)<br>Wide end: 100 mm (0.33 ft)   |
| <b>Color Separation Optical System</b> | 1MOS   |
| <b>Standard Sensitivity</b>            | F9, 2000 lx (When normal mode is selected)   |
| <b>Minimum Illumination</b>            | 2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)  |
| <b>S/N</b>                             | 60 dB or more  |

|                                  |   |
|----------------------------------|---|
| <b>Horizontal Resolution</b>     | 1600 TV lines Typ (Center area)   |
| <b>Gain Selection</b>            | Auto, 0 dB to 36 dB*2<br>Super Gain function equipped : +37 dB to 42 dB   |
| <b>Frame Mix*3</b>               | 0 dB, 6 dB, 12 dB, 18 dB, 24 dB<br>59.94p/59.94i<br>1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br>29.97p 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br>23.98p/24p<br>1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br>50p/50i<br>1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br>25p<br>1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br>59.94p/59.94i : 60.00 Hz to 7200 Hz<br>29.97p : 30.00 Hz to 7200 Hz<br>23.98p/24p : 24.00 Hz to 7200 Hz<br>50p/50i : 50.00 Hz to 7200 Hz<br>25p : 25.00 Hz to 7200 Hz |
| <b>Electronic Shutter Speed</b>  |   |
| <b>Syncro Scan</b>               |   |
| <b>Gamma</b>                     | HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3/ FILM REC / VIDEO REC / HLG<br>ATW : 3200K, 5600K  |
| <b>White Balance</b>             | ATW Speed : Normal / Slow / Fast<br>AWB : AWB-A / AWB-B<br>VAR (selectable between 2000K and 15000K by designating a value)   |
| <b>Chroma Amount Variability</b> | OFF, -99 % to 99 %  |
| <b>Scene File</b>                | Scene1, Scene2, Scene3, Scene4<br>4K<br>2160/59.94p, 2160/50p, 2160/29.97p*4, 2160/25p*4, 2160/24p*4, 2160/23.98p*4   |
| <b>Output Format</b>             | HD<br>1080/59.94p, 1080/50p, 1080/29.97p*4, 1080/29.97PsF, 1080/25p*4, 1080/25PsF, 1080/23.98p*5, 1080/24p*4, 1080/23.98p*4, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p  |
| <b>Synchronization System</b>    | -<br>Internal / External synchronization (BBS / Tri-level sync)   |
| <b>Input</b>                     | -   |
| <b>Input Connector</b>           | DC 12 V IN, G/L IN (BNC)<br>· BBS (Black Burst Sync), tri-level sync supported  |
| <b>Output</b>                    | -   |
| <b>Video Output</b>              | HDMI<br>HDMI 2.0 standard<br>4:2:2/10bit<br>· 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**

-  
LAN  
LAN connector for IP control (RJ-45)  
  
RS-422  
CONTROL IN RS-422A (RJ-45)

**Input / Output Connector**

MIC/LINE input  
φ3.5 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**

-  
IP connecting cable  
• LAN cable\*6\*7 : (category 5e or above, straight cable / crossover cable)  
max. 100 m (328 ft)

**Camera/Pan-Tilt Head Control**

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)\*8

**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**

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**browsers\*11**

Windows  
 Microsoft(R) Windows(R) 7, 10  
 Windows(R) Internet Explorer(R) 11 (64-bit/32-bit)  
 Microsoft Edge  
 Google Chrome

**Supported operating systems and web browsers**

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**

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**Image Streaming Mode**

JPEG (MJPEG), H.264, H.265

**Image Resolution**

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)**

■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/24576kbp  
 s/32768kbps/40960kbps/51200kbps/76800kbps  
 UHD : 12800kbps/25600kbps/51700kbps/76800kbps

**Image Transmission Setting (H.265)**

■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

**Audio Compression Type**

AAC-LC, 48 kHz / 16 bit / 2ch

**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

**Other Function**

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**NDI support\*12**

NDI | HX

**Tally LED display color**

red / green

**Note**

\*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, 2160/25p, 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 on the Panasonic website (<https://pro-av.panasonic.net/en/>) for the latest information on browser support. \*12: Contac