



**"New Professional-use PTZ Camera: New Standard for Video Expressiveness and Operational Versatility"**

## AW-UE150A

Panasonic's new 4K PTZ camera (AW-UE150AW/AK) meets the demands for advanced video production by setting new standard for video expressiveness and operational versatility. Building on its predecessor, the widely used AW-UE150W/K released in 2018, the AW-UE150AW/AK introduces new capabilities for enhanced video quality and flexible operation. In addition to improved pan, tilt, and zoom synchronization, it supports NDI® High Bandwidth for optimal remote-production workflows. \* NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.

### Key Features

Exceptional Performance for Capturing Immersive Moments

Flexible Adaptation to Diverse Environments

Advanced Features for Expanded Creative Possibilities



## AW-UE150A

<https://eu.connect.panasonic.com/gb/en/broadcast-proav/remote-ptz-camera-systems/aw-ue150a>

<b>General -&gt; Power Requirements</b>	DC12 V(10.8 V to 24.0 V)
<b>General -&gt; PoE</b>	IEEE802.3 bt standard : DC42 V to 57 V (Software authentication (LLDP) is supported).
<b>General -&gt; Current Consumption</b>	4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
<b>General -&gt; Ambient Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>General -&gt; Ambient Operating Humidity</b>	20 % to 90 % (no condensation)
<b>General -&gt; Storage Temperature</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>General -&gt; Weight</b>	Approx. 4.3 kg (9.48 lbs) (excluding mount bracket)
<b>General -&gt; Dimensions</b>	213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches) (excluding protrusions, cable cover, direct ceiling mount bracket)
<b>General -&gt; Finish</b>	AW-UE150AW: Pearl white AW-UE150AK: Black
<b>General -&gt; Controller Supported&lt;sup&gt;*1&lt;/sup&gt;</b>	AW-RP150GJ, AW-RP60GJ, AK-HRP1010GJ*1, AK-HRP1015GJ*1, AK-HRP1000GJ*1, AK-HRP1005GJ*1, AK-HRP250GJ*1
<b>Camera Unit -&gt; Imaging Sensor</b>	1-type 4K MOSx1
<b>Camera Unit -&gt; Effective Pixels</b>	Approx. 20,180,000 pixel
<b>Camera Unit -&gt; Zoom</b>	· Optical zoom: 20x · iZoom: UHD 24x, FHD 32x
<b>Camera Unit -&gt; Lens</b>	Motorized Optical 20x zoom, F2.8 to F4.5 [f=8.8 mm (1/32 inches) to 176.0 mm (6-15/16 inches) 35 mm (1-3/8 inches) equivalent: 24.5 mm (3/32 inches) to 490.0 mm (19-9/32 inches)]
<b>Camera Unit -&gt; Conversion Lens</b>	Not supported
<b>Camera Unit -&gt; Angle of View Range</b>	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)
<b>Camera Unit -&gt; Optical Filter -&gt; ND Filter</b>	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")
<b>Camera Unit -&gt; Focus</b>	Switching between auto and manual
<b>Camera Unit -&gt; Focus Distance</b>	Entire zooming range: 1000 mm (3.3 ft) Wide end: 100 mm (0.33 ft)
<b>Camera Unit -&gt; Color Separation Optical System</b>	1MOS
<b>Camera Unit -&gt; Standard Sensitivity</b>	F9, 2000 lx
<b>Camera Unit -&gt; Minimum Illumination</b>	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
<b>Camera Unit -&gt; Horizontal Resolution</b>	2,000 TV lines Typ (Center area)
<b>Camera Unit -&gt; Gain Selection&lt;sup&gt;*2&lt;/sup&gt;</b>	Auto, -3 dB to 36 dB · 1 dB step increments can be set. Super Gain function equipped : +37 dB to 42 dB
<b>Camera Unit -&gt; Frame Mix&lt;sup&gt;*3&lt;/sup&gt;</b>	0 dB, 6 dB, 12 dB, 18 dB, 24 dB
<b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 59.94p/59.94i</b>	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 50p/50i</b>	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 29.97p</b>	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 25p</b>	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 23.98p/24p</b>	1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Camera Unit -&gt; Synchro Scan -&gt; 59.94p/59.94i</b>	60.00 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 50p/50i</b>	50.00 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 29.97p</b>	30.00 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 25p</b>	25.00 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 23.98p/24p</b>	24.00 Hz to 7200 Hz
<b>Camera Unit -&gt; Gamma</b>	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3 / FILM REC / VIDEO REC
<b>Camera Unit -&gt; White Balance</b>	ATW : 3200K, 5600K · ATW Speed 3-stage variables AWB : AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value) OFF, -99 % to 99 %
<b>Camera Unit -&gt; Chroma Amount Variability</b>	OFF, -99 % to 99 %
<b>Camera Unit -&gt; Scene File</b>	Scene1, Scene2, Scene3, Scene4
<b>Camera Unit -&gt; Output Format(UHD/FHD SDI) -&gt; 4K&lt;sup&gt;*3&lt;/sup&gt;</b>	2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)
<b>Camera Unit -&gt; Output Format(UHD/FHD SDI) -&gt; HD&lt;sup&gt;*3&lt;/sup&gt;</b>	1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
<b>Camera Unit -&gt; Output Format(UHD/FHD Fiber) -&gt; 4K&lt;sup&gt;*3&lt;/sup&gt;</b>	2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)
<b>Camera Unit -&gt; Output Format(UHD/FHD Fiber) -&gt; HD&lt;sup&gt;*3&lt;/sup&gt;</b>	1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
<b>Synchronization System</b>	Internal/External synchronization (BBS/Tri-level sync)
<b>Input Connector -&gt; G/L IN</b>	· BBS (Black Burst Sync), tri-level sync supported

<b>Input Connector -&gt; MIC/LINE Input</b>	<p>MIC/LINE input compatible (SDI/HDMI/IP)</p> <p>AAC compatible (compatible with IP only)</p> <p>ø 3.5 mm stereo mini jack (unbalanced)</p> <ul style="list-style-type: none"> <li>• During MIC input</li> </ul> <p>Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz)</p> <p>Plug-in power compatible,</p> <p>supply voltage: 2.5 V ± 0.5 V</p> <p>Input impedance:</p> <p>Approx. 2 kΩ (When plug-in power is ON)</p> <p>Approx. 20 kΩ (When plug-in power is OFF)</p> <ul style="list-style-type: none"> <li>• During LINE input</li> </ul> <p>Input level: -10 dBV</p> <p>Input impedance: Approx. 3 kΩ</p> <ul style="list-style-type: none"> <li>• Input volume variable range:</li> </ul> <p>-36 dB to 12 dB (3 dB step)</p> <ul style="list-style-type: none"> <li>• Embedded audio output level:</li> </ul> <p>-12 dBFS</p> <ul style="list-style-type: none"> <li>• Sampling frequency:</li> </ul> <p>48 kHz</p> <ul style="list-style-type: none"> <li>• Quantization bit rate:</li> </ul> <p>24bit (SDI, HDMI), 16bit (IP)</p>
<b>Output Connector -&gt; HDMI</b>	<p>HDMI 2.0 connector</p> <p>4:2:2/10bit</p> <ul style="list-style-type: none"> <li>• HDCP is not supported.</li> <li>• Viera Link is not supported.</li> </ul>
<b>Output Connector -&gt; 12G-SDI OUT</b>	<p>SMPTE 2082-1/SMPTE 2081-1/SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)</p> <ul style="list-style-type: none"> <li>• Level-A/Level-B supported</li> </ul>
<b>Output Connector -&gt; 3G-SDI OUT1</b>	<p>SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)</p> <ul style="list-style-type: none"> <li>• Level-A/Level-B supported</li> </ul>
<b>Output Connector -&gt; 3G-SDI OUT2/PM</b>	<p>SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)</p> <ul style="list-style-type: none"> <li>• Level-A/Level-B supported</li> </ul>
<b>Output Connector -&gt; SFP+</b>	<p>SFP+ standard</p> <p>The signal sent is the same as 12G SDI OUT.</p> <ul style="list-style-type: none"> <li>• This unit does not support input by optical signals</li> <li>• Use a module conforming to the MSA specification.</li> </ul>
<b>Input/Output Connector -&gt; LAN</b>	<p>LAN connector for IP control (RJ-45)</p>
<b>Input/Output Connector -&gt; RS-422</b>	<p>CONTROL IN RS-422A (RJ-45)</p>
<b>Pan-tilt Head Unit -&gt; IP connecting cable</b>	<ul style="list-style-type: none"> <li>• When there is a PoE+ Ethernet hub</li> </ul> <p>LAN cable <sup>4</sup> (category 5e or above, straight cable), max. 100 m (328 ft)</p> <ul style="list-style-type: none"> <li>• When there is no PoE+ Ethernet hub</li> </ul> <p>LAN cable <sup>4</sup> (category 5e or above, straight cable), max. 100 m (328 ft)</p>
<b>Pan-tilt Head Unit -&gt; AW protocol connecting cable</b>	<p>LAN cable <sup>4</sup> (category 5e or above, straight cable), max. 1000 m (3280 ft)</p> <ul style="list-style-type: none"> <li>• Use category 6 or better for 4K video transmissions.</li> </ul>
<b>Pan-tilt Head Unit -&gt; Installation Method</b>	<p>Stand-alone (Desktop) or suspended (Hanging)</p> <ul style="list-style-type: none"> <li>• To ensure safety, the unit must be secured using the mount bracket supplied.</li> </ul>
<b>Pan-tilt Head Unit -&gt; Pan/tilt Operation Speed</b>	<p>Speed range: 0.08°/s to 180°/s (During manual operation)</p> <ul style="list-style-type: none"> <li>• 3 speed modes installed</li> </ul> <p>Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s</p> <ul style="list-style-type: none"> <li>• Note that the operating noise may be loud in high speed.</li> <li>• If the operating noise is disturbing, use the Normal mode.</li> </ul>
<b>Pan-tilt Head Unit -&gt; Panning Range</b>	<p>±175°</p>
<b>Pan-tilt Head Unit -&gt; Tilting range</b>	<p>-30° to 210°</p> <ul style="list-style-type: none"> <li>• Depending on the pan or tilt position, the camera may be reflected in the image.</li> </ul>
<b>Pan-tilt Head Unit -&gt; Quietness</b>	<p>NC35 or less (Up to 60°/s in Normal mode)</p>
<b>Supported Operating Systems and Web Browsers -&gt; Windows&lt;sup&gt;*11&lt;/sup&gt;</b>	<p>Microsoft® Windows® 10</p> <p>Microsoft® Windows® 11</p> <p>Microsoft Edge</p> <p>Google Chrome</p>
<b>Supported Operating Systems and Web Browsers -&gt; Mac&lt;sup&gt;*11&lt;/sup&gt;</b>	<p>macOS 14</p> <p>macOS 13</p> <p>macOS 12</p> <p>Safari</p> <p>Google Chrome</p>
<b>Supported Operating Systems and Web Browsers -&gt; iPhone/iPad&lt;sup&gt;*11&lt;/sup&gt;</b>	<p>iOS</p> <p>iPadOS</p> <p>Safari</p>
<b>Supported Operating Systems and Web Browsers -&gt; Android&lt;sup&gt;*9&lt;/sup&gt;</b>	<p>Android OS</p> <p>Google Chrome</p>
<b>IP Streaming -&gt; Image Streaming Mode</b>	<p>JPEG (MJPEG), H.264, H.265,NDI® HX2,NDI® High Bandwidth</p>
<b>IP Streaming -&gt; Image Resolution</b>	<p>3840x2160, 1920x1080, 1280x720, 640x360, 320x180</p>
<b>IP Streaming -&gt; Image Transmission Setting (JPEG)</b>	<p>Frame Rate: Maximum 30 fps</p> <p>Image quality (Fine / Normal)</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission Type</b>	<p>Unicast port (AUTO)</p> <p>Unicast port (MANUAL)</p> <p>Multicast port</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission mode</b>	<p>Constant bit rate</p> <p>Frame rate</p> <p>Best effort</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Frame Rate</b>	<p>[60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps)</p> <p>[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Max Bit Rate</b>	<p>512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps/32768kbps/40960kbps/51200kbps/76800kbps</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Transmission Type</b>	<p>Unicast port (AUTO)</p> <p>Unicast port (MANUAL)</p> <p>Multicast port</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Frame Rate</b>	<p>[60Hz] 30fps/60fps</p> <p>[50Hz] 25fps/50fps</p>
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Max Bit Rate</b>	<p>512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps</p>

IP Streaming -> Audio AAC-LC, 48 kHz / 16 bit / 2ch

**Compression Format**

IP Streaming -> Supported TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP,

Protocol -> IPv6 SNMP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP

IP Streaming -> Supported TCP / IP, UDP / IP, HTTP, HTTPS, RTSP,

Protocol -> IPv4 RTP, RTSP / RTCP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT

NDI<sup>®</sup> Support NDI® HX2, NDI® High Bandwidth

->

NDI<sup>®</sup> Support

NDI<sup>®</sup> Support 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p

-> Output Format

(NDI<sup>®</sup> High

bandwidth) -> 4K

NDI<sup>®</sup> Support 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p

-> Output Format

(NDI<sup>®</sup> High

bandwidth) -> HD

NDI<sup>®</sup> Support 1920x1080, 1280x720

-> Image Resolution

(NDI<sup>®</sup> HX2)

NDI<sup>®</sup> Support TCP/UDP

-> Image Streaming Unicast/Multicast

Setting (NDI<sup>®</sup> High

bandwidth) ->

Transmission Type

NDI<sup>®</sup> Support Max 250 Mbps

-> Image Streaming

Setting (NDI<sup>®</sup> High

bandwidth) -> Max Bit

Rate

NDI<sup>®</sup> Support Unicast port (AUTO)

-> Image Streaming Unicast port (MANUAL)

Setting (NDI<sup>®</sup> HX2) ->

Transmission Type Multicast port

NDI<sup>®</sup> Support (60Hz) 5fps / 15fps / 30fps / 60fps (UHD:30fps / 60fps)

-> Image Streaming

Setting (NDI<sup>®</sup> HX2) -> Frame rate

[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD:25fps / 50fps)

NDI<sup>®</sup> Support 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps

-> Image Streaming

Setting (NDI<sup>®</sup> HX2) ->

Max Bit Rate

NDI<sup>®</sup> Support AAC, 48 kHz, 2 ch

-> Audio Compression

Type (NDI<sup>®</sup> High

bandwidth)

NDI<sup>®</sup> Support AAC-LC, 48 kHz, 16 bit, 2 ch

-> Audio Compression

Type (NDI<sup>®</sup> HX2)

Other Function ->

Tally LED red / green / yellow

Display Color

Footnote Description

Future support planned

This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p.

When selecting formats for UHD SDI, HDMI, and Fiber, it is not possible to select different formats for each of them. Furthermore, the formats for FHD SDI and 3G SDI OUT2 are fixed to the formatting method selected for UHD SDI and HDMI.

Use of an STP (shielded twisted pair) cable is recommended.

Category 6 or more is used when sending 4K images.

\* NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.