



**"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/se/sv/broadcast-proav/remote-ptz-camera-systems/aw-ue150a>

<b>General -&gt;</b>	DC12 V(10.8 V to 24.0 V)
<b>Power Requirements</b>	
<b>General -&gt; PoE</b>	IEEE802.3 bt standard : DC42 V to 57 V (Software authentication (LLDP) is supported).
<b>General -&gt;</b>	4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
<b>Current Consumption</b>	
<b>General -&gt;</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Ambient Operating Temperature</b>	
<b>General -&gt;</b>	20 % to 90 % (no condensation)
<b>Ambient Operating Humidity</b>	
<b>General -&gt;</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Storage Temperature</b>	
<b>General -&gt;</b>	Approx. 4.3 kg (9.48 lbs)(excluding mount bracket)
<b>Weight</b>	
<b>General -&gt;</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>Dimensions</b>	
<b>General -&gt; Finish</b>	AW-UE150AW: Pearl white AW-UE150AK: Black
<b>General -&gt;</b>	AW-RP150Gj, AW-RP60Gj, AK-HRP1010Gj*1, AK-HRP1015Gj*1, AK-HRP1000Gj*1, AK-HRP1005Gj*1, AK-HRP250Gj*1
<b>Controller Supported *1</b>	
<b>Camera Unit -&gt;</b>	1-type 4K MOSx1
<b>Imaging Sensor</b>	
<b>Camera Unit -&gt;</b>	Approx 20,180,000 pixel
<b>Effective Pixels</b>	
<b>Camera Unit -&gt;</b>	· Optical zoom: 20x · i.Zoom: UHD 24x, FHD 32x
<b>Zoom</b>	
<b>Camera Unit -&gt;</b>	Motorized Optical 20x zoom, F2.8 to F4.5
<b>Lens</b>	[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>Camera Unit -&gt;</b>	Not supported
<b>Conversion Lens</b>	
<b>Camera Unit -&gt;</b>	Horizontal angle of view: 75.1° (wide) to 4.0° (tele)
<b>Angle of View</b>	
<b>Camera Unit -&gt;</b>	Vertical angle of view: 46.7° (wide) to 2.3° (tele)
<b>Range</b>	
<b>Camera Unit -&gt;</b>	Diagonal angle of view: 82.8° (wide) to 4.6° (tele)
<b>Camera Unit -&gt;</b>	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")
<b>Optical Filter -&gt;</b>	
<b>ND Filter</b>	
<b>Camera Unit -&gt;</b>	Switching between auto and manual
<b>Focus</b>	
<b>Camera Unit -&gt;</b>	Entire zooming range: 1000 mm (3.3 ft)
<b>Focus Distance</b>	
<b>Camera Unit -&gt;</b>	Wide end: 100 mm (0.33 ft)
<b>Color Separation</b>	
<b>Camera Unit -&gt;</b>	1 MOS
<b>Optical System</b>	
<b>Camera Unit -&gt;</b>	F9, 2000 lx
<b>Standard Sensitivity</b>	
<b>Camera Unit -&gt;</b>	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
<b>Minimum Illumination</b>	
<b>Camera Unit -&gt;</b>	2,000 TV lines Typ (Center area)
<b>Horizontal Resolution</b>	
<b>Camera Unit -&gt;</b>	Auto, -3 dB to 36 dB
<b>Gain Selection</b>	
<b>Camera Unit -&gt;</b>	· 1 dB step increments can be set. Super Gain function equipped : +37 dB to 42 dB
<b>Camera Unit -&gt;</b>	0 dB, 6 dB, 12 dB, 18 dB, 24 dB
<b>Frame Mix *3</b>	
<b>Camera Unit -&gt;</b>	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Electronic Shutter Speed -&gt;</b>	
<b>Camera Unit -&gt;</b>	59.94p/59.94i
<b>Camera Unit -&gt;</b>	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Electronic Shutter Speed -&gt;</b>	
<b>Camera Unit -&gt;</b>	50p/50i
<b>Camera Unit -&gt;</b>	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
<b>Electronic Shutter Speed -&gt;</b>	
<b>Camera Unit -&gt;</b>	29.97p
<b>Camera Unit -&gt;</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>Electronic Shutter Speed -&gt;</b>	
<b>Camera Unit -&gt;</b>	25p
<b>Camera Unit -&gt;</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>Electronic Shutter Speed -&gt;</b>	
<b>Camera Unit -&gt;</b>	23.98p/24p
<b>Camera Unit -&gt;</b>	60.00 Hz to 7200 Hz
<b>Synchro Scan -&gt;</b>	
<b>Camera Unit -&gt;</b>	59.94p/59.94i
<b>Camera Unit -&gt;</b>	50.00 Hz to 7200 Hz
<b>Synchro Scan -&gt;</b>	
<b>Camera Unit -&gt;</b>	50p/50i
<b>Camera Unit -&gt;</b>	30.00 Hz to 7200 Hz
<b>Synchro Scan -&gt;</b>	
<b>Camera Unit -&gt;</b>	29.97p
<b>Camera Unit -&gt;</b>	25.00 Hz to 7200 Hz
<b>Synchro Scan -&gt;</b>	
<b>Camera Unit -&gt;</b>	25p
<b>Camera Unit -&gt;</b>	24.00 Hz to 7200 Hz
<b>Synchro Scan -&gt;</b>	
<b>Camera Unit -&gt;</b>	23.98p/24p
<b>Camera Unit -&gt;</b>	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3 / FILM REC / VIDEO REC
<b>Gamma</b>	
<b>Camera Unit -&gt;</b>	ATW : 3200K, 5600K
<b>White Balance</b>	
<b>Camera Unit -&gt;</b>	· ATW Speed 3-stage variables AWB : AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)
<b>Camera Unit -&gt;</b>	OFF, -99 % to 99 %
<b>Chroma Amount Variability</b>	
<b>Camera Unit -&gt;</b>	Scene1, Scene2, Scene3, Scene4
<b>Scene File</b>	

**Camera Unit** -> 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)  
**Output**  
**Format(UHD/FHD SDI)** -> 4K \*3

**Camera Unit** -> 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  
**Output**  
**Format(UHD/FHD SDI)** -> HD \*3

**Camera Unit** -> 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)  
**Output**  
**Format(UHD/FHD Fiber)** -> 4K \*3

**Camera Unit** -> 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  
**Output**  
**Format(UHD/FHD Fiber)** -> HD \*3

**Synchronization** Internal/External synchronization (BBS/Tri-level sync)  
**System**  
**Input Connector** - · BBS (Black Burst Sync), tri-level sync supported  
> **G/L IN**  
**Input Connector** -MIC/LINE input compatible (SDI/HDMI/IP)  
> **MIC/LINE Input**AAC compatible (compatible with IP only)  
· ø 3.5 mm stereo mini jack (unbalanced)  
· During MIC input  
Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz)  
Plug-in power compatible,  
supply voltage: 2.5 V ± 0.5 V  
Input impedance:  
Approx. 2 kΩ (When plug-in power is ON)  
Approx. 20 kΩ (When plug-in power is OFF)  
· During LINE input  
Input level: -10 dBV  
Input impedance: Approx. 3 kΩ  
· Input volume variable range:  
-36 dB to 12 dB (3 dB step)  
· Embedded audio output level:  
-12 dBFS  
· Sampling frequency:  
48 kHz  
· Quantization bit rate:  
24bit (SDI, HDMI), 16bit (IP)

**Output Connector** -> HDMI 2.0 connector  
**HDMI**  
· HDCP is not supported.  
· Viera Link is not supported.

**Output Connector** -> SMPTE 2082-1/SMPTE 2081-1/SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)  
· Level-A/Level-B supported

**12G-SDI OUT**  
**Output Connector** -> 3G- · SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)  
· Level-A/Level-B supported

**SDI OUT1**  
**Output Connector** -> 3G- · SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)  
· Level-A/Level-B supported

**SDI OUT2/PM**  
**Output Connector** -> SFP+ standard  
**SFP+** The signal sent is the same as 12G SDI OUT.  
· This unit does not support input by optical signals  
· Use a module conforming to the MSA specification.

**Input/Output Connector** -> LAN connector for IP control (RJ-45)  
**LAN**  
**Input/Output Connector** -> RS-422 CONTROL IN RS-422A (RJ-45)

**Pan-tilt Head Unit** · When there is a PoE+ Ethernet hub  
-> **IP connecting cable** LAN cable\*4 (category 5e or above, straight cable), max. 100 m (328 ft)  
· When there is no PoE+ Ethernet hub  
LAN cable\*4 (category 5e or above, straight cable), max. 100 m (328 ft)

**Pan-tilt Head Unit**LAN cable\*4 (category 5e or above, straight cable), max. 1000 m (3280 ft)  
-> **AW protocol connecting cable** · Use category 6 or better for 4K video transmissions.

**Pan-tilt Head Unit**Stand-alone (Desktop) or suspended (Hanging)  
-> **Installation Method** · To ensure safety, the unit must be secured using the mount bracket supplied.

**Pan-tilt Head Unit**Speed range: 0.08°/s to 180°/s (During manual operation)  
-> **Pan/tilt** · 3 speed modes installed

**Operation Speed** Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s  
· Note that the operating noise may be loud in high speed.  
· If the operating noise is disturbing, use the Normal mode.

**Pan-tilt Head Unit**:175°  
-> **Panning Range**  
**Pan-tilt Head Unit**:30° to 210°  
-> **Tilting range** · Depending on the pan or tilt position, the camera may be reflected in the image.

**Pan-tilt Head Unit**NC35 or less (Up to 60°/s in Normal mode)  
-> **Quietness**

**Supported Operating Systems and Web Browsers** -> Microsoft® Windows® 10  
Microsoft® Windows® 11  
Microsoft Edge  
Google Chrome

**Windows** \*11  
**Supported Operating Systems and Web Browsers** -> macOS 14  
macOS 13  
macOS 12  
Safari  
Google Chrome

**Supported Operating Systems and Web Browsers** -> iOS  
iPadOS  
Safari

**Supported Operating Systems and Web Browsers** -> Android OS  
Google Chrome

**IP Streaming** -> JPEG (MJPEG), H.264, H.265,NDI® HX2,NDI® High Bandwidth  
**Image Streaming Mode**  
**IP Streaming** -> 3840x2160, 1920x1080, 1280x720, 640x360, 320x180  
**Image Resolution**  
**IP Streaming** -> Frame Rate: Maximum 30 fps  
**Image** Image quality (Fine / Normal)  
**Transmission Setting (JPEG)**  
**IP Streaming** -> Unicast port (AUTO)  
**Image** Unicast port (MANUAL)  
**Transmission Setting (H.264)** -> Multicast port  
**Transmission Type**  
**IP Streaming** -> Constant bit rate  
**Image** Frame rate  
**Transmission** Best effort  
**Setting (H.264)** ->  
**Transmission mode**

<b>IP Streaming -&gt;</b>	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps)
<b>Image</b>	[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)
<b>Transmission Setting (H.264) -&gt;</b>	
<b>Frame Rate</b>	
<b>IP Streaming -&gt;</b>	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps/32768kbps/40960kbps/51200kbps/76800kbps
<b>Image</b>	
<b>Transmission Setting (H.264) -&gt;</b>	
<b>Max Bit Rate</b>	
<b>IP Streaming -&gt;</b>	Unicast port (AUTO)
<b>Image</b>	Unicast port (MANUAL)
<b>Transmission</b>	Multicast port
<b>Setting (H.265) -&gt;</b>	
<b>Transmission Type</b>	
<b>IP Streaming -&gt;</b>	[60Hz] 30fps/60fps
<b>Image</b>	[50Hz] 25fps/50fps
<b>Transmission Setting (H.265) -&gt;</b>	
<b>Frame Rate</b>	
<b>IP Streaming -&gt;</b>	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps
<b>Image</b>	
<b>Transmission Setting (H.265) -&gt;</b>	
<b>Max Bit Rate</b>	
<b>IP Streaming -&gt;</b>	AAC-LC, 48 kHz / 16 bit / 2ch
<b>Audio</b>	
<b>Compression Format</b>	
<b>IP Streaming -&gt;</b>	TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP,
<b>Supported Protocol -&gt; IPv6</b>	SNMP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP
<b>IP Streaming -&gt;</b>	TCP / IP, UDP / IP, HTTP, HTTPS, RTSP,
<b>Supported Protocol -&gt; IPv4</b>	RTP, RTP / RTCP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT
<b>NDI® Support -&gt;</b>	NDI® HX2, NDI® High Bandwidth
<b>NDI® Support</b>	
<b>NDI® Support -&gt;</b>	2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
<b>Output Format (NDI® High bandwidth) -&gt; 4K</b>	
<b>NDI® Support -&gt;</b>	1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
<b>Output Format (NDI® High bandwidth) -&gt; HD</b>	
<b>NDI® Support -&gt;</b>	1920x1080, 1280x720
<b>Image Resolution (NDI® HX2)</b>	
<b>NDI® Support -&gt;</b>	TCP/UDP
<b>Image Streaming</b>	Unicast/Multicast
<b>Setting (NDI® High bandwidth) -&gt; Transmission Type</b>	
<b>NDI® Support -&gt;</b>	Max 250 Mbps
<b>Image Streaming Setting (NDI® High bandwidth) -&gt; Max Bit Rate</b>	
<b>NDI® Support -&gt;</b>	Unicast port (AUTO)
<b>Image Streaming</b>	Unicast port (MANUAL)
<b>Setting (NDI® HX2) -&gt;</b>	Multicast port
<b>Transmission Type</b>	
<b>NDI® Support -&gt;</b>	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD:30fps / 60fps)
<b>Image Streaming</b>	[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD:25fps / 50fps)
<b>Setting (NDI® HX2) -&gt; Flame rate</b>	
<b>NDI® Support -&gt;</b>	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps
<b>Image Streaming Setting (NDI® HX2) -&gt; Max Bit Rate</b>	
<b>NDI® Support -&gt;</b>	AAC, 48 kHz, 2 ch
<b>Audio</b>	
<b>Compression Type (NDI® High bandwidth)</b>	
<b>NDI® Support -&gt;</b>	AAC-LC, 48 kHz, 16 bit, 2 ch
<b>Audio</b>	
<b>Compression Type (NDI® HX2)</b>	
<b>Other Function -&gt;</b>	red / green / yellow
<b>Tally LED Display Color</b>	
<b>Footnote</b>	1. Future support planned
<b>Description</b>	2. This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p. 3. 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. 4. Use of an STP (shielded twisted pair) cable is recommended. 5. Category 6 or more is used when sending 4K images.

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