



## Professional PTZ with 4K 60p/50p Unleashing New Possibilities in Video Production

### AW-UE150

The AW-UE150 is Panasonic's comprehensive professional PTZ camera lineup. Featuring a 1-type large MOS sensor, this next-generation PTZ camera supports high-quality 4K/UHD 60p video, features a 75.1-degree viewing angle, 20x optical zoom and supports versatile outputs, including 12G-SDI, HDMI, optical fiber, and IP. Simultaneous 4K/HD operation makes this PTZ camera powerhouse ideal for those looking to future-proof their system.

#### Key Features

First 60p/50p Integrated PTZ Camera

75.1° horizontal viewing angle (widest in its class)

Various 4K interfaces (12G-SDI, HDMI, Optical Fiber, IP)

Optical 20x Zoom + iZoom

4K/HD Simultaneous Output



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## AW-UE150

<https://latam.connect.panasonic.com/pa/es/productos/broadcast-y-proav/aw-ue150>

<b>General -&gt; Power Requirements</b>	12 V DC (10.8 V to 13.2 V), DC 42 V to 57 V (Camera Input, PoE++ power supply)
<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>	0 °C to 40 °C (32 °F to 104 °F)
<b>General -&gt; Storage Temperature</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>General -&gt; Weight</b>	Approx. 4.2 kg (9.24 lb) (excluding mount bracket)
<b>General -&gt; Dimensions</b>	W 213 mm x H 267 mm x D 219 mm  (8-3/8 inches x 10-1/2 inches x 8-5/8 inches)  (excluding protrusions, direct ceiling mount bracket)
<b>General -&gt; Finish</b>	AW-UE150WP/AW-UE150WE: Pearl white  AW-UE150KP/AW-UE150KE: Black
<b>General -&gt; Controller Supported</b> *1	See the "Compatibility Chart for Operation Devices and Application Software" page
<b>Camera Unit -&gt; Imaging Sensor</b>	1-type 4K MOSx1
<b>Camera Unit -&gt; Effective Pixels</b>	20,180,000 pixel
<b>Camera Unit -&gt; Zoom</b>	• Optical zoom: 20x  • i.Zoom: UHD 24x, FHD 32x  • Digital zoom: 10x
<b>Camera Unit -&gt; Lens</b>	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)]
<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 (When normal mode is selected)
<b>Camera Unit -&gt; Minimum Illumination</b>	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
<b>Camera Unit</b>	60 dB or more
<b>Camera Unit -&gt; Horizontal Resolution</b>	> 4K -2,000 TV lines Typ (Center area)
<b>Camera Unit -&gt; Gain Selection</b> *2	Auto, -3 dB to 36 dB *2  Super Gain function equipped : +37 dB to 42 dB
<b>Camera Unit -&gt; Frame Mix</b> *3	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

Camera Unit -> Electronic Shutter Speed -> 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
Camera Unit -> Electronic Shutter Speed -> 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
Camera Unit -> Synchro Scan -> 59.94p/59.94i	60.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 50p/50i	50.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 29.97p	30.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 25p	25.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 23.98p/24p	24.00 Hz to 7200 Hz
Camera Unit -> Gamma	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3 / FILM REC / VIDEO REC / HLG
Camera Unit -> 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)
Camera Unit -> Chroma Amount Variability	OFF, -99 % to 99 %
Camera Unit -> Scene File	Scene1, Scene2, Scene3, Scene4
Camera Unit -> Output Format (SDI) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p <sup>*4</sup> , 2160/25p <sup>*4</sup> , 2160/24p <sup>*4</sup> , 2160/23.98p <sup>*4</sup>
Camera Unit -> Output Format (SDI) -> HD	1080/59.94p, 1080/50p, 1080/29.97p <sup>*4</sup> , 1080/29.97PsF, 1080/25p <sup>*4</sup> , 1080/25PsF, 1080/23.98p <sup>*5</sup> , 1080/24p <sup>*4</sup> , 1080/23.98p <sup>*4</sup> , 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Camera Unit -> Output Format (HDMI) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p <sup>*4</sup> , 2160/25p <sup>*4</sup> , 2160/24p <sup>*4</sup> , 2160/23.98p <sup>*4</sup>
Camera Unit -> Output Format (HDMI) -> HD	1080/59.94p, 1080/50p, 1080/29.97p <sup>*4</sup> , 1080/29.97PsF, 1080/25p <sup>*4</sup> , 1080/25PsF, 1080/23.98p, 1080/24p <sup>*4</sup> , 1080/23.98p <sup>*4</sup> , 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Camera Unit -> Output Format (Fiber (video only)) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
Camera Unit -> Output Format (Fiber (video only)) -> 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
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input Connector -> DC IN	DC 12 V IN
Input Connector -> G/L IN	BBS (Black Burst Sync), tri-level sync supported
Output Connector -> HDMI	HDMI 2.0 standard
	4:2:2/10bit
	• HDCP is not supported.
	• Viera Link is not supported.
Output Connector -> 12G-SDI OUT	SMPTE 2082-1 standard / 75 Ω (BNC x 1)
Output Connector -> 3G-SDI OUT	SMPTE424M/SMPTE292 / 75 Ω (BNC x 1)
	• Level-A/Level-B supported
Output Connector -> MONIOUT	SMPTE292 / 75 Ω (BNC x 1)
Output Connector -> OpticalFiber	SFP+ standard
	• This unit does not support input by optical signals
Input/Output Connector -> LAN	LAN connector for IP control (RJ-45) 100BASE-TX/1000BASE-T
Input/Output Connector -> RS-422	CONTROL IN RS-422A (RJ-45)

<b>Input/Output Connector -&gt; MIC/LINE Input</b>	AAC compatible (compatible with IP only)
	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
<b>Pan-tilt Head Unit -&gt; IP connecting cable</b>	LAN cable <sup>*6</sup> <sup>*7</sup> : (category 5e or above, straight cable / crossover cable), max. 100 m (328 ft)
<b>Pan-tilt Head Unit -&gt; AW protocol connecting cable</b>	LAN cable <sup>*6</sup> : (category 5e or above, straight cable), max. 1000 m (3280 ft)
<b>Pan-tilt Head Unit -&gt; Installation Method</b>	Stand-alone (Desktop) or suspended (Hanging) <sup>*8</sup>
<b>Pan-tilt Head Unit -&gt; Pan/tilt Operation Speed</b>	Minimum speed 0.08°/s
	Maximum speed 60°/s or higher <sup>*9</sup>
	• Maximum speed is 180°/s in high-speed mode
<b>Pan-tilt Head Unit -&gt; Panning Range</b>	±175°
<b>Pan-tilt Head Unit -&gt; Tilting range</b>	-30° to 210° <sup>*10</sup>
<b>Pan-tilt Head Unit -&gt; Quietness</b>	NC35 or less
<b>Supported Operating Systems and Web Browsers -&gt; Windows <sup>*11</sup></b>	Microsoft® Windows® 7, 10 Windows® Internet Explorer® 11 (64-bit/32-bit)
	Microsoft Edge Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; Mac <sup>*11</sup></b>	Mac OS 10.13, Mac OS 10.12, Mac OS 10.11
	Safari 11, Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; iPhone/iPad <sup>*11</sup></b>	iOS 11.4.1
	Google Chrome
<b>IP Streaming -&gt; Image Streaming Mode</b>	JPEG (MJPEG), H.264, H.265
<b>IP Streaming -&gt; Image Resolution</b>	3840x2160, 1920x1080, 1280x720, 640x360, 320x180
<b>IP Streaming -&gt; Image Transmission Setting (JPEG)</b>	Frame Rate: Maximum 30 fps
	Image quality (Fine / Normal)
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission Type</b>	Unicast port (AUTO)
	Unicast port (MANUAL)
	Multicast port
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission mode</b>	Constant bit rate
	Frame rate
	Best effort
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Frame Rate</b>	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps)
	[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)

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**IP Streaming -> Image Transmission** HD:  
**Setting (H.264) -> Max Bit Rate**

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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**IP Streaming -> Image Transmission** Unicast port (AUTO)  
**Setting (H.265) -> Transmission Type**

Unicast port (MANUAL)

Multicast port

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**IP Streaming -> Image Transmission** [60Hz] 30fps  
**Setting (H.265) -> Frame Rate**

[50Hz] 25fps

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**IP Streaming -> Image Transmission** 8192kbps / 12800kbps / 25600kbps / 51200kbps / 76800kbps  
**Setting (H.265) -> Max Bit Rate**

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

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**IP Streaming -> Supported Protocol -> IPv6** TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT

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**IP Streaming -> Supported Protocol -> IPv4** TCP / IP, UDP / IP, HTTP, HTTPS, RTSP, RTP / RTCP, DHCP, DNS, DDNS, NTP, UPnP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT

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**NDI<sup>®</sup> Support -> NDI<sup>®</sup> Support** NDI<sup>®</sup> HX version 2

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**Other Function -> Tally LED Display** red / green  
**Color**

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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 for the latest information on browser support.
12. Contact your local Panasonic vendor for further information.

