



**First 4K 60p/50p\*1 PTZ Camera supporting NDI®\*2 and SRT\*3 in the world\*4**

## AW-UE100

Supports high bandwidth NDI® for low latency transmission of high-quality 4K 60p/50p\*1 video, and SRT\*3 for high-quality and stable transmission, and also compatible with 12G-SDI output for use in a wide range of situations, from live streaming of events to studio production.

### Key Features

Supports a wide variety of IP transmission protocols, including NDI®\*2, NDI® | HX\*5, and SRT\*3

Supports 4K 60p/50p\*1 shooting and 12G-SDI output

Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom

Supports FreeD\*1 for building AR/VR\*2 systems

Adopts new mechanical pan/tilt for improved responsiveness and quietness





## AW-UE100

<https://ap.connect.panasonic.com/id/en/aw-ue100>

<b>General -&gt; Power Requirements</b>	12 V DC (10.8 V to 13.2 V) (Supplied AC adaptor), 42 V to 57 V DC (PoE++ power supply)
<b>General -&gt; PoE</b>	PoE++ IEEE802.3bt standard: DC 42 V to 57 V (Software authentication (LLDP) is supported)
<b>General -&gt; Current Consumption</b>	3.0 A (Supplied AC adaptor), 1.0 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. 2.2 kg (4.84 lb) (excluding cable cover, mount bracket) Approx. 2.3 kg (5.06 lb) (including cable cover, excluding mount bracket)
<b>General -&gt; Dimensions</b>	W 169.2 mm x H 204.6 mm x D 170.6 mm (6-21/32 inches x 8-1/16 inches x 6-23/32 inches) (excluding protrusions, cable cover, mount bracket)
<b>General -&gt; Finish</b>	AW-UE100WP/AW-UE100WPC/AW-UE100WE/AW-UE100WED: Pearl white AW-UE100KP/AW-UE100KPC/AW-UE100KE/AW-UE100KED: Black
<b>General -&gt; Controller Supported</b>	See the "Compatibility Chart for Operation Devices and Application Software" page
<b>Camera Unit -&gt; Imaging Sensor</b>	1/2.5-type 4K MOS x 1
<b>Camera Unit -&gt; Effective Pixels</b>	Approx. 8,490,000 pixels
<b>Camera Unit -&gt; Zoom</b>	• Optical zoom: 24x • i.Zoom: UHD 28x, FHD 36x • Digital zoom: 1.4x, 2x
<b>Camera Unit -&gt; Lens</b>	Motorized Optical 24x zoom, F1.8 to F4.0 [f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches); 35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)]
<b>Camera Unit -&gt; Conversion Lens</b>	Not supported
<b>Camera Unit -&gt; Angle of View Range</b>	Horizontal angle of view: 74.1° (wide) to 3.3° (tele) Vertical angle of view: 46.0° (wide) to 1.9° (tele) Diagonal angle of view: 81.8° (wide) to 3.8° (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: 1200 mm (3.9 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>	F4, 2000 lx (When normal mode is selected) F5.6, 2000 lx (When High Sens mode is selected)
<b>Camera Unit -&gt; Minimum Illumination</b>	3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)
<b>Camera Unit</b>	60dB(typ) (When [Shooting Mode] is [Normal])
<b>Camera Unit -&gt; Horizontal Resolution</b>	> 4K 1500 TV lines Typ (Center area)
<b>Camera Unit -&gt; Gain Selection</b>	Auto, 0 dB to 36 dB *1 Super Gain function equipped : 37 dB to 42 dB
<b>Camera Unit -&gt; Frame Mix *2</b>	Auto, 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
<b>Camera Unit -&gt; White Balance</b>	ATW: 3200K, 5600K AWB: AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)

<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 (SDI) -&gt; 4K</b>	->2160/59.94p, 2160/50p, 2160/29.97p <sup>*3</sup> , 2160/25p <sup>*3</sup> , 2160/24p <sup>*3</sup> , 2160/23.98p <sup>*3</sup>
<b>Camera Unit -&gt; Output Format (SDI) -&gt; HD</b>	->1080/59.94p, 1080/50p, 1080/29.97p <sup>*3</sup> , 1080/29.97PsF, 1080/25p <sup>*3</sup> , 1080/25PsF, 1080/23.98p <sup>*4</sup> , 1080/24p <sup>*3</sup> , 1080/23.98p <sup>*3</sup> , 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
<b>Camera Unit -&gt; Output Format (HDMI) -&gt; 4K</b>	2160/59.94p, 2160/50p, 2160/29.97p <sup>*3</sup> , 2160/25p <sup>*3</sup> , 2160/24p <sup>*3</sup> , 2160/23.98p <sup>*3</sup>
<b>Camera Unit -&gt; Output Format (HDMI) -&gt; HD</b>	1080/59.94p, 1080/50p, 1080/29.97p <sup>*3</sup> , 1080/25p <sup>*3</sup> , 1080/23.98p, 1080/24p <sup>*3</sup> , 1080/23.98p <sup>*3</sup> <sup>*10</sup> , 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; DC IN</b>	DC 12 V IN
<b>Input Connector -&gt; G/L IN</b>	BBS (Black Burst Sync), tri-level sync supported 75 Ω terminal (BNCx1)
<b>Input Connector -&gt; AUDIO INPUT -&gt; Stereo Mini Jack</b>	Compatible (SDI/HDMI/IP) AAC compatible (compatible with IP only) ø 3.5 mm stereo mini jack Input impedance: Approx. 10 kΩ (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 • During LINE input Input level: -10 dBV • 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)
<b>Output Connector -&gt; HDMI</b>	HDMI 2.0 connector 4:2:2/10bit • HDCP is not supported. • Viera Link is not supported.
<b>Output Connector -&gt; 12G-SDI OUT</b>	SMPTE 2082-1, SMPTE424M/SMPTE292M / 75 Ω (BNC x 1) • Level-A/Level-B supported
<b>Output Connector -&gt; 3G-SDI OUT</b>	SMPTE424M/SMPTE292M / 75 Ω (BNC x 1) • Level-A/Level-B supported
<b>Input/Output Connector -&gt; LAN</b>	LAN terminal for IP control and video transmission (RJ-45) 100BASE-TX/1000BASE-T PoE++ power terminal (IEEE802.3bt compliant)
<b>Input/Output Connector -&gt; RS-422</b>	CONTROL IN RS-422A (RJ-45)
<b>Pan-tilt Head Unit -&gt; IP connecting cable</b>	LAN cable <sup>*5</sup> :(category 5e or above, straight cable), max. 100 m (328 ft)
<b>Pan-tilt Head Unit -&gt; AW protocol connecting cable</b>	LAN cable <sup>*5</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>*6</sup>
<b>Pan-tilt Head Unit -&gt; Pan/tilt Operation Speed</b>	Speed range: 0.08°/s to 60°/s (Normal mode) • 3 speed modes installed Normal: 60°/s, Fast1: 90°/s <sup>*7</sup> , Fast2: 180°/s <sup>*7</sup>
<b>Pan-tilt Head Unit -&gt; Panning Range</b>	±175°
<b>Pan-tilt Head Unit -&gt; Tilting range</b>	-30° to 210° <sup>*8</sup>
<b>Pan-tilt Head Unit -&gt; Quietness</b>	NC25 or less
<b>Supported Operating Systems and Web Browsers -&gt; Windows <sup>*9</sup></b>	Microsoft® Windows® 10 Microsoft Edge Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; Mac <sup>*9</sup></b>	MacOS 10.13/Safari 13, MacOS 10.14/Safari 13 MacOS 10.15/Safari 13, MacOS 10.15/Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; iPhone/iPad <sup>*9</sup></b>	iOS Safari iPadOS
<b>Supported Operating Systems and Web Browsers -&gt; Android <sup>*9</sup></b>	Android OS Google Chrome
<b>IP Streaming -&gt; Image Streaming Mode</b>	JPEG (MJPEG), H.264, H.265, NDI®  HX, High Bandwidth NDI®
<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)
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Max Bit Rate</b>	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps / 32768kbps / 40960kbps / 51200kbps / 76800kbps
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Transmission Type</b>	Unicast port (AUTO) Unicast port (MANUAL) Multicast port
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Frame Rate</b>	[60Hz] 30fps [50Hz] 25fps

<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Max Bit Rate</b>	8192kbps / 12288kbps / 25600kbps / 51200kbps / 76800kbps
<b>IP Streaming -&gt; Audio Compression Format</b>	AAC-LC, 48 kHz / 16 bit / 2ch
<b>IP Streaming -&gt; Supported Protocol -&gt; IPv6</b>	TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT, SNMP, MPEG2-TS over UDP
<b>IP Streaming -&gt; Supported Protocol -&gt; IPv4</b>	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT, SNMP, MPEG2-TS over UDP
<b>NDI® Support -&gt; NDI® Support</b>	NDI®  HX version 2 : Included as standard High Bandwidth NDI®: Included as standard
<b>Other Function -&gt; Tally LED Display Color</b>	red / green
<b>Footnote Description</b>	<p>* NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries.</p> <ol style="list-style-type: none"> <li>1. 1 dB steps.</li> <li>2. 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.</li> <li>3. Native output.</li> <li>4. OVER 59.94i output (your monitor may recognize the signal as 59.94i).</li> <li>5. Use of an STP (shielded twisted pair) cable is recommended.</li> <li>6. To ensure safety, the unit must be secured using the mount bracket supplied.</li> <li>7. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode.</li> <li>8. Depending on the pan or tilt position, the camera may be reflected in the image.</li> <li>9. Supported OS indicated are for browsers current as of August 2020. See "Service and Support / PASS" for the latest information on browser support.</li> <li>10. It denotes "1080/23.98p over 59.94p"</li> </ol>