



**High-precision 4K/ 60p images, supported by D.I.S.S.  
(Dynamic Image Stabilizing System)**

## **AW-UR100**

It is the first outdoor remote camera\* that supports 4K60p. Even in scenes with intense motion, natural smoothness and color can be recorded in high definition and high image quality.

### **Key Features**

Compatible with 4K/60p shooting

Built-in cropping function

24x optical zoom / 74.1° horizontal wide-angle images

Three types of image stabilization, O.I.S., E.I.S. and D.I.S.S.

Durability to withstand the harshest of environments





## AW-UR100

<https://latam.connect.panasonic.com/br/es/productos/broadcast-y-proav/aw-ur100>

<b>General -&gt; Power Requirements</b>	DC 12 V to 21.8 V ±10 % (10.8 to 24.0 V)
<b>General -&gt; PoE</b>	PoE++  IEEE802.3bt compliant: DC42-57V (camera end)  (Compatible with software authentication (LLDP communication))
<b>General -&gt; Current Consumption</b>	3.1 A to 5.5 A (DC IN connector), 1.2 A (PoE++ power supply)
<b>General -&gt; Ambient Operating Temperature</b>	-15 °C to 45 °C (5 °F to 113 °F) *1
<b>General -&gt; Ambient Operating Humidity</b>	10% to 100% *2
<b>General -&gt; Storage Temperature</b>	-20 °C to 55 °C (-4 °F to 131 °F)
<b>General -&gt; Weight</b>	Approx. 9.0 kg (19.84 lb)
<b>General -&gt; Dimensions</b>	W 258.0 mm x H 367.0 mm x D 392.0 mm  (10.16 inches x 14.45 inches x 15.43inches)  (including protrusions and cable cover)
<b>General -&gt; Finish</b>	Silver, salt resistant coating
<b>General -&gt; Controller Supported</b>	See the "Compatibility Chart for Operation Devices and Application Software" page
<b>General -&gt; Waterproof and Dust Proof</b>	IP65 compliant
<b>General -&gt; Maximum Permissible Wind Speed</b>	15 m/sec: Operates normally, 50 m/sec: Operation possible, 60 m/sec: No damage
<b>General -&gt; Wiper</b>	Installed as standard
<b>General -&gt; Heater</b>	Installed as standard
<b>General -&gt; Defroster</b>	Installed as standard
<b>Camera Unit -&gt; Imaging Sensor</b>	1/2.5-type 4K MOS x 1
<b>Camera Unit -&gt; Effective Pixels</b>	Approx. 8,290,000 pixel
<b>Camera Unit -&gt; Zoom</b>	<ul style="list-style-type: none"> <li>• Optical zoom: 24x</li> <li>• i.Zoom UHD 28x, FHD 36x</li> <li>• Digital extender: 1.4x, 2x</li> <li>• Digital zoom: 10x</li> </ul>
<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: 74.1° (wide) - 3.3° (tele)  Vertical: 46.0° (wide) - 1.9° (tele)  Diagonal: 81.8° (wide) - 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</b>	1MOS
<b>Optical System</b>	
<b>Camera Unit -&gt; Minimum Illumination</b>	3 lx (F1.8, 59.94p, 50 IRE, 42 dB, without accumulation)
<b>Camera Unit -&gt; Horizontal Resolution</b>	1,500 TV Typ (Center area, UHD mode, wide) > 4K
<b>Camera Unit -&gt; Gain Selection</b>	Auto, 0 dB to 36 dB *3 (Super Gain function equipped : 37 dB to 42 dB)
<b>Camera Unit -&gt; Frame Mix</b>	Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB *4
<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>	1/30, 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; 29.97p</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; Electronic Shutter Speed -&gt; 25p</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; 23.98p/24p</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; Synchro Scan -&gt; 59.94p/59.94i</b>	60.0 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 50p/50i</b>	30.0 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 29.97p</b>	24.0 Hz to 7200 Hz

<b>Camera Unit -&gt; Synchro Scan -&gt; 25p</b>	50.0 Hz to 7200 Hz
<b>Camera Unit -&gt; Synchro Scan -&gt; 23.98p/24p</b>	25.0 Hz to 7200 Hz
<b>Camera Unit -&gt; Gamma</b>	HD / NORMAL / CINEMA1 / CINEMA2 / STILL LIKE * Black Gamma is not supported
<b>Camera Unit -&gt; White Balance</b>	<ul style="list-style-type: none"> <li>• ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)</li> <li>• AWB: AWB-A / AWB-B</li> <li>• VAR (selectable between 2000 K and 15000 K by designating a value)</li> </ul>
<b>Camera Unit -&gt; Chroma Amount Variability</b>	OFF, -99 % to 99 %
<b>Camera Unit -&gt; Scene File</b>	Full Auto, Scene1, Scene2, Scene3
<b>Camera Unit -&gt; Color Bar -&gt; 4K</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 (SDI) HD</b>	-> 1080/59.94p, 1080/50p, 1080/29.97p (Native), 1080/29.97PsF, 1080/25p (Native), 1080/25PsF, 1080/23.98p over 59.94i, 1080/24p (Native), 1080/23.98p (Native), 1080/23.98PsF, 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
<b>Output Connector -&gt; 12G-SDI OUT</b>	SMPT2082-1, SMPTE424M, SMPTE292M compliant/75Ω (BNC x 1) *5
<b>Output Connector -&gt; 3G-SDI OUT</b>	SMPT2082-1, SMPTE424M / 75Ω (BNC x 1) *5
<b>Output Connector -&gt; SFP+</b>	SFP+ compliant (Single Fiber) *6 MSA standard compliant product
<b>Input/Output Connector -&gt; LAN</b>	LAN terminal for IP control (RJ-45)
<b>Input/Output Connector -&gt; RS-232C</b>	External washer control terminals (#1: Washer_HOT, #6: Washer_COLD)
	MIC/LINE Input terminals (#5: CH1-HOT, #4: CH1-COLD, #3:CH1-GND, #9: CH2-HOT, #8: CH2-COLD, #7:CH2-GND) MIC/LINE Input Compatible (SDI/IP) AAC compatible (compatible with IP only) Balanced input 2ch <ul style="list-style-type: none"> <li>• During MIC input</li> </ul> Input level: -40 dBu Input impedance: Approx. 10 kΩ Phantom power compatible, supply voltage: 47 V ± 2 V <ul style="list-style-type: none"> <li>• During LINE input</li> </ul> Input level: 0 dBu Input impedance: Approx. 10 kΩ <ul style="list-style-type: none"> <li>• Input volume variable range: -30 dB to 20 dB (1 dB step)</li> <li>• Embedded audio output level: -12 dBFS</li> <li>• Sampling frequency: 48 kHz</li> <li>• Quantization bit rate: 24bit (SDI), 16bit (IP)</li> </ul>
<b>Input/Output Connector -&gt; RS-422</b>	CONTROL IN RS422A (RJ-45)
<b>Pan-tilt Head Unit -&gt; IP connecting cable</b>	LAN cable *7 *8 (category 5e or above, straight cable) Max. 100 m
<b>Pan-tilt Head Unit -&gt; AW protocol connecting cable</b>	LAN cable *7 (category 5e or above, straight cable) Max. 100 m
<b>Pan-tilt Head Unit -&gt; Installation Method</b>	Stand-alone (Desktop) or suspended (Hanging)
<b>Pan-tilt Head Unit -&gt; Pan/tilt Operation Speed</b>	Speed range: 0.08°/s ~ 60°/s (Normal mode) <ul style="list-style-type: none"> <li>• 3 speed modes installed</li> </ul> Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s
<b>Pan-tilt Head Unit -&gt; Panning Range</b>	±175°
<b>Pan-tilt Head Unit -&gt; Tilting range</b>	-30° to 210°
<b>Pan-tilt Head Unit -&gt; Quietness</b>	NC25 or less
<b>Pan-tilt Head Unit -&gt; Vibration Correction</b>	D.I.S.S. (Dynamic Image Stabilizing System)
<b>Supported Operating Systems and Web Browsers -&gt; Windows</b>	Windows®10 Microsoft Edge Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; Mac</b>	Windows®10 Microsoft Edge Google Chrome
<b>Supported Operating Systems and Web Browsers -&gt; iPhone/iPad</b>	iOS, Safari, iPadOS
<b>Supported Operating Systems and Web Browsers -&gt; Android</b>	Android OS Google Chrome
<b>IP Streaming -&gt; Video Compression Format</b>	JPEG (MJPEG), H.264, H.265, High Bandwidth NDI®
<b>IP Streaming</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 (Excluding UHD)</b>	Constant bit rate Frame rate Best effort
<b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Flame 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; Flame rate</b>	[60Hz] 30fps [50Hz] 25fps
<b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Max Bit Rate</b>	8192kbps / 12800kbps / 25600kbps / 51200kbps / 76800kbps
<b>IP Streaming -&gt; Audio Compression Type</b>	AAC-LC, 48 kHz / 16 bit / 2ch
<b>IP Streaming -&gt; Supported Protocol -&gt; Network Protocol</b>	ICMP, ARP, GARP, MLD
<b>IP Streaming -&gt; Supported Protocol -&gt; Transmission Protocol</b>	TCP/IP, UDP/IP
<b>IP Streaming -&gt; Supported Protocol -&gt; IPv6</b>	HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP, 802.1X
<b>IP Streaming -&gt; Supported Protocol -&gt; IPv4</b>	HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP, 802.1X
<b>IP Streaming -&gt; Supported Protocol -&gt; Video Streaming Protocol</b>	RTP/RTCP over RTSP, RTMP, RTMPS, SRT, MPEG2-TS over UDP, NDI® JHX version 2, High bandwidth NDI®
<b>IP Streaming -&gt; Supported Protocol -&gt; External Device Cooperation Protocol</b>	FreeD, TSL5.0, SNMP
<b>IP Streaming -&gt; Output Format (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> High bandwidth) -&gt; 4K</b>	2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
<b>IP Streaming -&gt; Output Format (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> High bandwidth) -&gt; HD</b>	1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
<b>IP Streaming -&gt; Image Resolution (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> HX)</b>	1920x1080, 1280x720
<b>IP Streaming -&gt; Image Streaming Setting (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> High bandwidth) -&gt; Flame rate</b>	TCP/UDP Multicast
<b>IP Streaming -&gt; Image Streaming Setting (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> High bandwidth) -&gt; Max Bit Rate</b>	250 Mbps
<b>IP Streaming -&gt; Image Streaming Setting (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> HX) -&gt; Transmission Type</b>	Unicast port (AUTO) Unicast port (MANUAL) Multicast port
<b>IP Streaming -&gt; Image Streaming Setting (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> HX) -&gt; Flame rate</b>	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps) [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)
<b>IP Streaming -&gt; Image Streaming Setting (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> HX) -&gt; Max Bit Rate</b>	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps
<b>IP Streaming -&gt; Audio Compression Type (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> High bandwidth)</b>	AAC, 48 kHz, 2 ch
<b>IP Streaming -&gt; Audio Compression Type (NDI<sup>&lt;sup&gt;@&lt;/sup&gt;</sup> HX)</b>	AAC-LC, 48 kHz, 16 bit, 2 ch
<b>Footnote Description</b>	* NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries.

Preheating required for temperatures below -5°C (1H).

Storage humidity: 10% to 95% (no condensation).

Can be set in 1 dB step increments.

If format is set in 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p, it cannot be set.

Compatible with Level-A/Level-B.

The signal to be sent out is the same as 12G SDI OUT. Optical signal input is not supported.

STP (Shielded Twisted Pair) is recommended.

Category 6 or above is used for 4K video transmission.

