



**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/mx/es/productos/broadcast-y-proav/aw-ur100>

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|---|---|
| General -> Power Requirements | DC 12 V to 21.8 V ±10 % (10.8 to 24.0 V) |
| General -> PoE | PoE++ IEEE802.3bt compliant: DC42-57V (camera end) (Compatible with software authentication (LLDP communication)) |
| General -> Current Consumption | 3.1 A to 5.5 A (DC IN connector), 1.2 A (PoE++ power supply) |
| General -> Ambient Operating Temperature | -15 °C to 45 °C (5 °F to 113 °F) *1 |
| General -> Ambient Operating Humidity | 10% to 100% *2 |
| General -> Storage Temperature | -20 °C to 55 °C (-4 °F to 131 °F) |
| General -> Weight | Approx. 9.0 kg (19.84 lb) |
| General -> Dimensions | 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) |
| General -> Finish | Silver, salt resistant coating |
| General -> Controller Supported | See the "Compatibility Chart for Operation Devices and Application Software" page |
| General -> Waterproof and Dust Proof | IP65 compliant |
| General -> Maximum Permissible Wind Speed | 15 m/sec: Operates normally, 50 m/sec: Operation possible, 60 m/sec: No damage |
| General -> Wiper | Installed as standard |
| General -> Heater | Installed as standard |
| General -> Defroster | Installed as standard |
| Camera Unit -> Imaging Sensor | 1/2.5-type 4K MOS x 1 |
| Camera Unit -> Effective Pixels | Approx. 8,290,000 pixel |
| Camera Unit -> Zoom | <ul style="list-style-type: none"> • Optical zoom: 24x • i.Zoom UHD 28x, FHD 36x • Digital extender: 1.4x, 2x • Digital zoom: 10x |
| Camera Unit -> Lens | 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)] |
| Camera Unit -> Conversion Lens | Not supported |
| Camera Unit -> Angle of View Range | Horizontal: 74.1° (wide) - 3.3° (tele) Vertical: 46.0° (wide) - 1.9° (tele) Diagonal: 81.8° (wide) - 3.8° (tele) |
| Camera Unit -> Optical Filter -> ND Filter | Through, 1/4, 1/16, 1/64, IR through (IR through is used as "night mode") |
| Camera Unit -> Focus | Switching between auto and manual |
| Camera Unit -> Focus Distance | Entire zooming range: 1200 mm (3.9 ft), wide end: 100 mm (0.33 ft) |
| Camera Unit -> Color Separation | 1MOS |
| Optical System | |
| Camera Unit -> Minimum Illumination | 3 lx (F1.8, 59.94p, 50 IRE, 42 dB, without accumulation) |
| Camera Unit -> Horizontal Resolution | 1,500 TV Typ (Center area, UHD mode, wide) > 4K |
| Camera Unit -> Gain Selection | Auto, 0 dB to 36 dB *3 (Super Gain function equipped : 37 dB to 42 dB) |
| Camera Unit -> Frame Mix | Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB *4 |
| Camera Unit -> Electronic Shutter Speed -> 59.94p/59.94i | 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 -> 50p/50i | 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 -> 29.97p | 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 -> Electronic Shutter Speed -> 25p | 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 | 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 |
| Camera Unit -> Synchro Scan -> 59.94p/59.94i | 60.0 Hz to 7200 Hz |
| Camera Unit -> Synchro Scan -> 50p/50i | 30.0 Hz to 7200 Hz |
| Camera Unit -> Synchro Scan -> 29.97p | 24.0 Hz to 7200 Hz |

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| Camera Unit -> Synchro Scan -> 25p | 50.0 Hz to 7200 Hz |
| Camera Unit -> Synchro Scan -> 23.98p/24p | 25.0 Hz to 7200 Hz |
| Camera Unit -> Gamma | HD / NORMAL / CINEMA1 / CINEMA2 / STILL LIKE * Black Gamma is not supported |
| Camera Unit -> White Balance | <ul style="list-style-type: none"> • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.) • AWB: AWB-A / AWB-B • VAR (selectable between 2000 K and 15000 K by designating a value) |
| Camera Unit -> Chroma Amount Variability | OFF, -99 % to 99 % |
| Camera Unit -> Scene File | Full Auto, Scene1, Scene2, Scene3 |
| Camera Unit -> Color Bar -> 4K | 2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Native), 2160/23.98p (Native) |
| Camera Unit -> Output Format (SDI) HD | -> 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 |
| 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 -> 12G-SDI OUT | SMPT2082-1, SMPTE424M, SMPTE292M compliant/75Ω (BNC x 1) *5 |
| Output Connector -> 3G-SDI OUT | SMPT2082-1, SMPTE424M / 75Ω (BNC x 1) *5 |
| Output Connector -> SFP+ | SFP+ compliant (Single Fiber) *6 MSA standard compliant product |
| Input/Output Connector -> LAN | LAN terminal for IP control (RJ-45) |
| Input/Output Connector -> RS-232C | 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"> • During MIC input Input level: -40 dBu Input impedance: Approx. 10 kΩ Phantom power compatible, supply voltage: 47 V ± 2 V <ul style="list-style-type: none"> • During LINE input Input level: 0 dBu Input impedance: Approx. 10 kΩ <ul style="list-style-type: none"> • Input volume variable range: -30 dB to 20 dB (1 dB step) • Embedded audio output level: -12 dBFS • Sampling frequency: 48 kHz • Quantization bit rate: 24bit (SDI), 16bit (IP) |
| Input/Output Connector -> RS-422 | CONTROL IN RS422A (RJ-45) |
| Pan-tilt Head Unit -> IP connecting cable | LAN cable *7 *8 (category 5e or above, straight cable) Max. 100 m |
| Pan-tilt Head Unit -> AW protocol connecting cable | LAN cable *7 (category 5e or above, straight cable) Max. 100 m |
| Pan-tilt Head Unit -> Installation Method | Stand-alone (Desktop) or suspended (Hanging) |
| Pan-tilt Head Unit -> Pan/tilt Operation Speed | Speed range: 0.08°/s ~ 60°/s (Normal mode) <ul style="list-style-type: none"> • 3 speed modes installed Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s |
| Pan-tilt Head Unit -> Panning Range | ±175° |
| Pan-tilt Head Unit -> Tilting range | -30° to 210° |
| Pan-tilt Head Unit -> Quietness | NC25 or less |
| Pan-tilt Head Unit -> Vibration Correction | D.I.S.S. (Dynamic Image Stabilizing System) |
| Supported Operating Systems and Web Browsers -> Windows | Windows®10 Microsoft Edge Google Chrome |
| Supported Operating Systems and Web Browsers -> Mac | Windows®10 Microsoft Edge Google Chrome |
| Supported Operating Systems and Web Browsers -> iPhone/iPad | iOS, Safari, iPadOS |
| Supported Operating Systems and Web Browsers -> Android | Android OS Google Chrome |
| IP Streaming -> Video Compression Format | JPEG (MJPEG), H.264, H.265, High Bandwidth NDI® |
| IP Streaming | 3840x2160, 1920x1080, 1280x720, 640x360, 320x180 |

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| IP Streaming -> Image Transmission Setting (JPEG) | Frame Rate: Maximum 30 fps Image quality (Fine / Normal) |
| IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type | Unicast port (AUTO) Unicast port (MANUAL) Multicast port |
| IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode (Excluding UHD) | Constant bit rate Frame rate Best effort |
| IP Streaming -> Image Transmission Setting (H.264) -> Flame rate | [60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps) [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps) |
| IP Streaming -> Image Transmission 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 |
| IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type | Unicast port (AUTO) Unicast port (MANUAL) Multicast port |
| IP Streaming -> Image Transmission Setting (H.265) -> Flame rate | [60Hz] 30fps [50Hz] 25fps |
| IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate | 8192kbps / 12800kbps / 25600kbps / 51200kbps / 76800kbps |
| IP Streaming -> Audio Compression Type | AAC-LC, 48 kHz / 16 bit / 2ch |
| IP Streaming -> Supported Protocol -> Network Protocol | ICMP, ARP, GARP, MLD |
| IP Streaming -> Supported Protocol -> Transmission Protocol | TCP/IP, UDP/IP |
| IP Streaming -> Supported Protocol -> IPv6 | HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP, 802.1X |
| IP Streaming -> Supported Protocol -> IPv4 | HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP, 802.1X |
| IP Streaming -> Supported Protocol -> Video Streaming Protocol | RTP/RTCP over RTSP, RTMP, RTMPS, SRT, MPEG2-TS over UDP, NDI® JHX version 2, High bandwidth NDI® |
| IP Streaming -> Supported Protocol -> External Device Cooperation Protocol | FreeD, TSL5.0, SNMP |
| IP Streaming -> Output Format (NDI^{<sup>@</sup>} High bandwidth) -> 4K | 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p |
| IP Streaming -> Output Format (NDI^{<sup>@</sup>} High bandwidth) -> HD | 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p |
| IP Streaming -> Image Resolution (NDI^{<sup>@</sup>} HX) | 1920x1080, 1280x720 |
| IP Streaming -> Image Streaming Setting (NDI^{<sup>@</sup>} High bandwidth) -> Flame rate | TCP/UDP Multicast |
| IP Streaming -> Image Streaming Setting (NDI^{<sup>@</sup>} High bandwidth) -> Max Bit Rate | 250 Mbps |
| IP Streaming -> Image Streaming Setting (NDI^{<sup>@</sup>} HX) -> Transmission Type | Unicast port (AUTO) Unicast port (MANUAL) Multicast port |
| IP Streaming -> Image Streaming Setting (NDI^{<sup>@</sup>} HX) -> Flame rate | [60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps) [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps) |
| IP Streaming -> Image Streaming Setting (NDI^{<sup>@</sup>} HX) -> Max Bit Rate | 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps |
| IP Streaming -> Audio Compression Type (NDI^{<sup>@</sup>} High bandwidth) | AAC, 48 kHz, 2 ch |
| IP Streaming -> Audio Compression Type (NDI^{<sup>@</sup>} HX) | AAC-LC, 48 kHz, 16 bit, 2 ch |
| Footnote Description | * 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.

