Panasonic CONNECT



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

SRT SECURE RELIABLE TRANSPORT

4K PROFESSIONAL

NDI

Panasonic CONNECT






AW-UR100

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

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	• 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 Optical System	1MOS
Camera Unit -> Minimum Illumination	3 lx (F1.8, 59.94p, 50 IRE, 42 dB, without accumulation)
Camera Unit -> Horizontal Resolution -> 4K	1,500 TV Typ (Center area, UHD mode, wide)
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
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	• 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	SMPTE2082-1, SMPTE424M, SMPTE292M compliant/75Ω (BNC x 1 *5
Output Connector -> 3G-SDI OUT	SMPTE424M, SMPTE292M / 75Ω (BNC x 1) *5
Output Connector -> SFP+	SFP+ compliant (Single Fiber) *6MSA 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 • During MIC input Input level: -40 dBu Input impedance: Approx. 10 kΩ Phantom power compatible, supply voltage: 47 V ± 2 V • During LINE input Input level: 0 dBu Input impedance: Approx. 10 kΩ • 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) • 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
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®|HX version 2, High bandwidth NDI®
IP Streaming -> Supported Protocol -> External Device Cooperation Protocol	FreeD, TSL5.0, SNMP
IP Streaming -> Output Format (NDI® High bandwidth) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
IP Streaming -> Output Format (NDI® 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® HX)	1920x1080, 1280x720
IP Streaming -> Image Streaming Setting (NDI® High bandwidth) -> Flame rate	TCP/UDP Multicast
IP Streaming -> Image Streaming Setting (NDI® High bandwidth) -> Max Bit Rate	250 Mbps
IP Streaming -> Image Streaming Setting (NDI® HX) -> Transmission Type	Unicast port (AUTO) Unicast port (MANUAL) Multicast port
IP Streaming -> Image Streaming Setting (NDI® 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® 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® High bandwidth)	AAC, 48 kHz, 2 ch
IP Streaming -> Audio Compression Type (NDI® 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. 1. Preheating required for temperatures below -5℃ (1H). 2. Storage humidity: 10% to 95% (no condensation). 3. Can be set in 1 dB step increments. 4. If format is set in 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p、1080/25p, it cannot be set. 5. Compatible with Level-A/Level-B. 6. The signal to be sent out is the same as 12G SDI OUT. Optical signal input is not supported. 7. STP (Shielded Twisted Pair) is recommended. 8. Category 6 or above is used for 4K video transmission.