



The AW-UR100 is a 4K PTZ camera that captures high-precision images in 4K/60p 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

Three types of image stabilization, OIS, EIS, and D.I.S.S.

Durability to withstand the harshest of environments

Robust to withstand harsh environments





AW-UR100

<https://eu.connect.panasonic.com/lu/en/products/broadcast-proav/aw-ur100>

Input/Output

Output Format (High bandwidth NDI)	[4K Format] 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
	[HD Format] 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Current Consumption	TBD
Power Requirements	DC12V~21.8±10%(10.8V~24.0V)
Ambient Operating Temperature	-15°C to 45°C (5 °F to +113 °F) (preheating is required when -5 °C (23 °F) or less)
PoE++	IEEE802.3bt compliant:DC42-57V (Software authentication (LLDP) is supported)
Storage Temperature	-20 °C to +55 °C (-4 °F to +113 °F)
Ambient Operating Humidity	10 % to 100 % (no condensation)
Dimensions (W x H x D)	TBD
Finish	TBD
Mass	TBD
Controller Supported	AW-RP150, AW-RP60, AK-HRP1010, AK-HRP1015, AK-HRP1000, AK-HRP1005, AK-HRP250
service life	Functional durability 7 years (8H), life end 20 years
Imaging Sensors	1/2.5-type (1/2.5") 4K MOS Effective Pixels :3,864×2,196= Approx. 8,490,000 pixels
Camera Unit	
Lens	Motorized Optical 24xZoom F1.8~F4.0 (f=4.12 mm ~ 98.9mm,35mm equivalent:25.0mm ~ 600.0mm) i.Zoom(UHD:28x,FHD:36x) D.Extender(1.4x,2x) Digital Zoom 10x
Optical Filter	Through, 1/4,1/16,1/64 ,IR Through (IR Through is used as "night mode")
Conversion Lens	Not Supported
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)
Focus Distance	Entire zooming range :1200 mm, Wide end :100 mm
Standard Sensitivity	F4/2,000lux(Non-public) *With full auto function * Although it is not described in manuals, catalogs, etc., the numerical value is described as a guideline for internal materials.
Color Separation Optical Systems	1MOS
Minimum Illumination	3lx(F1.8, 59.94p, 50IRE, +42dB, without accumulation)
Horizontal Resolution	1,500 TV Typ(center area, UHD Mode, Wide)
Gain Selection	Auto, 0dB ~ 36dB* Can be set in 1dB step increments. (Super Gain function equipped : 37 dB to 42 dB)
Frame Mix	Auto, 0dB, 6dB, 12dB, 18dB, 24dB *If format is set in 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p, it cannot be set.

Synchro Scan	59.94p / 59.94i mode 60.0Hz~7200Hz 29.97p mode 30.0Hz~7200Hz 23.98p / 24p mode 24.0Hz~7200Hz 50p / 50i mode 50.0Hz~7200Hz 25p mode 25.0Hz~7200Hz
Gamma	HD/NORMAL/CINEMA1/CINEMA2/Still like *Black Gamma is not supported
Electronic Shutter Speed	59.94p / 59.94i mode 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 29.97p mode 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 23.98p / 24p mode 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 50p / 50i mode 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 25p mode 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
White Balance	ATW, 3200K, 5600K AWB-A, AWB-B VAR (selectable between 2000 K and 15000 K by designating a value) (ATW Speed 3-stage variables.)
Chroma Amount Variability	OFF, -99%~99%
Output Format (UHD/FHD SDI)	[4K Format] 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) [HD Format] 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
Shine File	Full Auto, Scene1, Scene2, Scene3
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input	DC 12 V IN, G/L IN(BNC)
G/L In	BBS (Black Burst Sync), tri-level sync supported)
Output	
SFP+	SFP+ standard(Single Fiber) *This unit does not support input by optical signals
12G SDI OUT	SMPTE2082-1, SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
3G SDI OUT1	SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
LAN	LAN connector for IP control (RJ-45)

IP Connecting Cable	<p>if you have PoE++ ethernet hub</p> <p>LAN cable *1(category 5e or above, straight cable)Max100 m</p> <p>If you don't have PoE++ ethernet hub</p> <p>LAN cable*1(category 5e or above, straight cable)Max100 m</p> <p>*1 STP(Shielded Twisted Pair) is recommended</p> <p>*2 Category 6 or above is used for 4K video transmission.</p>
AW Protocol Connecting Cable	<p>LAN cable*(category 5e or above, straight cable)Max1000 m</p> <p>*STP(Shielded Twisted Pair) is recommended</p>
Pan-tilt Head Control	
Pan-Tilt Head Unit	
Installation Method	Stand-alone (Desktop) or suspended (Hanging)
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
Panning Range	±175°
Quietness	TBD
Tilting Range	-30°~ 210
Vibration Correction	D.I.S.S.(Dynamic Image Stabilizing System)
Supported OS, browsers	TBD
IP Streaming	
Image Streaming Mode	JPEG(MJPEG), H.264, H.265, NDI/HX, High Bandwidth NDI
Image Resolution	3840x2160, 1920x1080, 1280x720, 640x360, 320x180
Image Transmission setting (JPEG)	<p>Frame rate : Max 30fps</p> <p>*No bit rate specified</p> <p>*JPEG and H.264, JPEG and H.265 simultaneous operation depends on bit rate</p> <p>Image quality(Fine/Normal)</p>
Image Transmission Setting (H.264)	<p>Transmission Type : Unicast port (AUTO)</p> <p>Unicast port (MANUAL)</p> <p>Multicast port</p> <p>Transmission mode: CBR, VBR</p> <p>Frame Rate</p> <p>[60Hz]</p> <p>5fps/15fps/30fps/60fps (UHD is only 30fps, 60fps)</p> <p>[50Hz]</p> <p>5fps/12.5fps/25fps/50fps (UHD is only 25fps, 50fps)</p> <p>Max to Min Bit Rate</p> <p>2048kbps/4096kbps/8192kbps/10240kbps/12288kbps/14336kbps/20480kbps/24576kbps/51200kbps/76800kbps</p>
Image Transmission Setting (H.265)	<p>Transmission Type : Unicast port (AUTO)</p> <p>Unicast port (MANUAL)</p> <p>Multicast port</p> <p>Transmission Mode :CBR, VBR</p> <p>Frame Rate</p> <p>[60Hz]</p> <p>30fps</p> <p>[50Hz]</p> <p>25fps</p> <p>Max to Min Bit Rate</p> <p>8192kbps/12288kbps/25600kbps/51200kbps/76800kbps</p>

Supported Protocol	<p>Network Protocol: ICMP, ARP, GARP, MLD</p> <p>Transmission Protocol: TCP/IP, UDP/IP</p> <p>Application Protocol: IPv4 : HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP IPv6 : HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP</p> <p>Video Streaming Protocol: RTP/RTCP over RTSP, RTMP, RTMPS, SRT, MPEG2-TS over UDP, NDI HX version 2, High bandwidth NDI</p> <p>External Device Cooperation Protocol: FreeD, TSL5.0, SNMP</p>
Audio Compression Type	AAC-LC, 48kHz/16bit/2ch
NDI (High Bandwidth NDI, NDI/HX Ver.2)	
Image Resolution (NDI HX Ver.2)	1920x1080, 1280x720
Image Streaming Setting	<p>High Bandwidth NDI</p> <p>Transmission Type : TCP/UDP Multicast</p> <p>Bit Rate : Max 250Mbps</p> <p>NDI/HX:</p> <p>Transmission Type : Unicast port (AUTO) Unicast port (MANUAL) Multicast port</p> <p>Frame Rate</p> <p>[60Hz] 5fps/15fps/30fps/60fps(UHD is 30fps, 60fps only)</p> <p>[50Hz] 5fps/12.5fps/25fps/50fps(UHD is 25fps, 50fps only)</p> <p>Max Bit Rate</p> <p>512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/ 4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/ 16384kbps/20480kbps/24576kbps</p>
Audio Compression Type 2	<p>NDI: AAC, 48kHz, 2ch</p> <p>NDI/HX: AAC-LC, 48kHz/16bit/2ch</p>
F Number Display	Displayed on the AW-RP150GJ and AW-RP60GJ sides
NDI	High Bandwidth NDI, NDI HX included as standard
RS-422	CONTROL IN RS422A (RJ-45)
Image Stabilization	TBD
Privacy Mode	The lens surface faces backward when standing by (ON/OFF)
New Feature	
IP menu display	supported *Non-synchronous with SDI-OUT
VR (FreeD) (IP/RS422)	supported
Wireless Remote Controller	
Horizontal display function	TBD