



**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://oc.connect.panasonic.com/nz/en/aw-ur100>

<b>Power Requirements</b>	DC12V~21.8±10%(10.8V~24.0V)
<b>PoE+</b>	IEEE802.3bt compliant:DC42-57V (Software authentication (LLDP) is supported))
<b>Current Consumption</b>	TBD
<b>Ambient Operating Temperature</b>	-15°C to 45°C (5 °F to +113 °F) (preheating is required when -5 °C (23 °F) or less)
<b>Ambient Operating Humidity</b>	10 % to 100 % (no condensation)
<b>Storage Temperature</b>	-20 °C to +55 °C (-4 °F to +113 °F)
<b>Mass</b>	TBD
<b>Dimensions (W x H x D)</b>	TBD
<b>Finish</b>	TBD
<b>Controller Supported</b>	AW-RP150, AW-RP60, AK-HRP1010, AK-HRP1015, AK-HRP1000, AK-HRP1005, AK-HRP250
<b>Camera Unit</b>	
<b>Imaging Sensors</b>	1/2.5-type (1/2.5") 4K MOS Effective Pixels :3,864×2,196= Approx. 8,490,000 pixels
<b>Lens</b>	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
<b>Conversion Lens</b>	Not Supported
<b>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>Optical Filter</b>	Through, 1/4,1/16,1/64 ,IR Through (IR Through is used as "night mode")
<b>Focus Distance</b>	Entire zooming range :1200 mm, Wide end :100 mm
<b>Color Separation Optical Systems</b>	1MOS
<b>Standard Sensitivity</b>	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.
<b>Minimum Illumination</b>	3lx(F1.8, 59.94p, 50IRE, +42dB, without accumulation)
<b>Horizontal Resolution</b>	1,500 TV Typ(center area, UHD Mode, Wide)
<b>Gain Selection</b>	Auto, 0dB ~ 36dB* Can be set in 1dB step increments. (Super Gain function equipped : 37 dB to 42 dB)
<b>Frame Mix</b>	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.

<b>Electronic Shutter Speed</b>	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
<b>Synchro Scan</b>	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
<b>Gamma</b>	HD/NORMAL/CINEMA1/CINEMA2/Still like *Black Gamma is not supported
<b>White Balance</b>	ATW, 3200K, 5600K AWB-A, AWB-B VAR (selectable between 2000 K and 15000 K by designating a value) (ATW Speed 3-stage variables.)
<b>Chroma Amount Variability</b>	OFF, -99%~99%
<b>Output Format (UHD/FHD SDI)</b>	[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
<b>Synchronization System</b>	Internal/External synchronization (BBS/Tri-level sync)
<b>Input</b>	DC 12 V IN, G/L IN(BNC)
<b>G/L In</b>	BBS (Black Burst Sync), tri-level sync supported)
<b>Output</b>	
<b>SFP+</b>	SFP+ standard(Single Fiber)  *This unit does not support input by optical signals
	MSA standard compliant product
<b>12G SDI OUT</b>	SMPTE2082-1, SMPTE292M / 75 Ω(BNC×1)  *Level-A/Level-B supported
<b>3G SDI OUT1</b>	SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
<b>Input/Output</b>	
<b>LAN</b>	LAN connector for IP control ( RJ-45 )
<b>RS-422</b>	CONTROL IN RS422A (RJ-45)
<b>Pan-tilt Head Control</b>	

<b>IP Connecting Cable</b>	<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>
<b>AW Protocol Connecting Cable</b>	<p>LAN cable*(category 5e or above, straight cable)Max1000 m</p> <p>*STP(Shielded Twisted Pair) is recommended</p>
<b>Pan-Tilt Head Unit</b>	
<b>Installation Method</b>	Stand-alone (Desktop) or suspended (Hanging)
<b>Pan/Tilt Operation Speed</b>	Speed range:0.08 °/s ~60°/s (Normal mode) *3 speed modes installed
	Normal:60°/s, Fast1:90°/s, Fast2:180°/s
<b>Panning Range</b>	±175°
<b>Tilting Range</b>	-30°~ 210
<b>Quietness</b>	TBD
<b>Vibration Correction</b>	D.I.S.S.(Dynamic Image Stabilizing System)
<b>IP Streaming</b>	
<b>Image Streaming Mode</b>	JPEG(MJPEG), H.264, H.265, NDI®*1 HX, NDI®*1 High Bandwidth
<b>Image Resolution</b>	3840x2160, 1920x1080, 1280x720, 640x360, 320x180
<b>Image Transmission setting (JPEG)</b>	<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>
<b>Image Transmission Setting (H.264)</b>	<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/</p> <p>20480kbps/24576kbps/51200kbps/76800kbps</p>
<b>Image Transmission Setting (H.265)</b>	<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>
<b>Audio Compression Type</b>	AAC-LC, 48kHz/16bit/2ch

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**Supported Protocol**

Network Protocol:

ICMP, ARP, GARP, MLD

Transmission Protocol:

TCP/IP, UDP/IP

Application Protocol:

IPv4 : HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP

IPv6 : HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP

Video Streaming Protocol:

RTP/RTCP over RTSP, RTMP, RTMPS, SRT, MPEG2-TS over UDP,

NDI®\*1 HX version 2, NDI®\*1 High Bandwidth

External Device Cooperation Protocol: FreeD, TSL5.0, SNMP

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**Image Streaming Setting**

NDI®\*1 High Bandwidth

Transmission Type : TCP/UDP Multicast

Bit Rate : Max 250Mbps

NDI®\*1 HX:

Transmission Type : Unicast port (AUTO)

Unicast port (MANUAL)

Multicast port

Frame Rate

[60Hz]

5fps/15fps/30fps/60fps(UHD is 30fps, 60fps only)

[50Hz]

5fps/12.5fps/25fps/50fps(UHD is 25fps, 50fps only)

Max Bit Rate

512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/

4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/

16384kbps/20480kbps/24576kbps

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**Audio Compression Type 2**

NDI®\*1: AAC, 48kHz, 2ch

NDI®\*1 HX: AAC-LC, 48kHz/16bit/2ch

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**F Number Display**

Displayed on the AW-RP150GJ and AW-RP60GJ sides

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**New Feature**

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**IP menu display**

supported \*Non-synchronous with SDI-OUT

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**VR (FreeD) (IP/RS422)**

supported

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**Image Stabilization**

TBD

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**Privacy Mode**

The lens surface faces backward when standing by (ON/OFF)

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**Wireless Remote Controller**

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**service life**

Functional durability 7 years (8H), life end 20 years

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**Shine File**

Full Auto, Scene1, Scene2, Scene3

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**Supported OS, browsers**

TBD

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**Horizontal display function**

TBD

1920x1080, 1280x720

NDI®\*1 High Bandwidth, NDI®\*1 HX included as standard

[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

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**Note**

\*1: NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries.