



**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>

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| Power Requirements | DC12V~21.8±10%(10.8V~24.0V) |
| PoE++ | IEEE802.3bt compliant:DC42-57V (Software authentication (LLDP) is supported)) |
| Current Consumption | TBD |
| Ambient Operating Temperature | -15°C to 45°C (5 °F to +113 °F) (preheating is required when -5 °C (23 °F) or less) |
| Ambient Operating Humidity | 10 % to 100 % (no condensation) |
| Storage Temperature | -20 °C to +55 °C (-4 °F to +113 °F) |
| Mass | TBD |
| Dimensions (W x H x D) | TBD |
| Finish | TBD |
| Controller Supported | AW-RP150, AW-RP60, AK-HRP1010, AK-HRP1015, AK-HRP1000, AK-HRP1005, AK-HRP250 |
| Camera Unit | |
| Imaging Sensors | 1/2.5-type (1/2.5") 4K MOS Effective Pixels :3,864×2,196= Approx. 8,490,000 pixels |
| 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 |
| 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) |
| Optical Filter | Through, 1/4,1/16,1/64 ,IR Through (IR Through is used as "night mode") |
| Focus Distance | Entire zooming range :1200 mm, Wide end :100 mm |
| Color Separation Optical Systems | 1MOS |
| 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. |
| 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 1 dB 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. |

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| 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 |
| 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 |
| 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 |
| 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 |
| | MSA standard compliant product |
| 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 |
| Input/Output | |
| LAN | LAN connector for IP control (RJ-45) |
| RS-422 | CONTROL IN RS422A (RJ-45) |
| Pan-tilt Head Control | |

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| 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 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° |
| Tilting Range | -30°~ 210 |
| Quietness | TBD |
| Vibration Correction | D.I.S.S.(Dynamic Image Stabilizing System) |
| IP Streaming | |
| Image Streaming Mode | JPEG(MJPEG), H.264, H.265, NDI®*1 HX, NDI®*1 High Bandwidth |
| 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/</p> <p>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> |
| Audio Compression Type | AAC-LC, 48kHz/16bit/2ch |

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

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

Audio Compression Type 2

NDI®*1: AAC, 48kHz, 2ch

NDI®*1 HX: AAC-LC, 48kHz/16bit/2ch

F Number Display

Displayed on the AW-RP150GJ and AW-RP60GJ sides

New Feature

IP menu display

supported *Non-synchronous with SDI-OUT

VR (FreeD) (IP/RS422)

supported

Image Stabilization

TBD

Privacy Mode

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

Wireless Remote Controller

service life

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

Shine File

Full Auto, Scene1, Scene2, Scene3

Supported OS, browsers

TBD

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

Note

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