



**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

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://eu.connect.panasonic.com/gb/en/products/broadcast-proav/aw-ur100>

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|---|--|
| <b>Input/Output</b>                                   |  |
| <b>Output Format (High bandwidth NDI)</b> [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   |
| <b>Current Consumption</b>                            | TBD  |
| <b>Power Requirements</b>                             | DC12V~21.8±10%(10.8V~24.0V)  |
| <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>PoE+</b>   | IEEE802.3bt compliant:DC42-57V<br><br>(Software authentication (LLDP) is supported))   |
| <b>Storage Temperature</b>                            | -20 °C to +55 °C (-4 °F to +113 °F)  |
| <b>Ambient Operating Humidity</b>                     | 10 % to 100 % (no condensation)  |
| <b>Dimensions (W x H x D)</b>                         | TBD  |
| <b>Finish</b>   | TBD  |
| <b>Mass</b>   | TBD  |
| <b>Controller Supported</b>                           | AW-RP150, AW-RP60, AK-HRP1010, AK-HRP1015, AK-HRP1000, AK-HRP1005, AK-HRP250   |
| <b>service life</b>                                   | Functional durability 7 years (8H), life end 20 years  |
| <b>Imaging Sensors</b>                                | 1/2.5-type (1/2.5") 4K MOS<br><br>Effective Pixels :3,864×2,196= Approx. 8,490,000 pixels  |
| <b>Camera Unit</b>                                    |  |
| <b>Lens</b>   | Motorized Optical 24xZoom F1.8~F4.0<br><br>(f=4.12 mm ~ 98.9mm,35mm equivalent:25.0mm ~ 600.0mm)<br><br>i.Zoom(UHD:28x,FHD:36x)<br><br>D.Extender(1.4x,2x)<br><br>Digital Zoom 10x         |
| <b>Optical Filter</b>                                 | Through, 1/4,1/16,1/64 ,IR Through<br><br>(IR Through is used as "night mode")   |
| <b>Conversion Lens</b>                                | Not Supported  |
| <b>Angle of View Range</b>                            | Horizontal:74.1°(wide) - 3.3°(tele)<br><br>Vertical:46.0°(wide) - 1.9°(tele)<br><br>Diagonal:81.8°(wide) - 3.8°(tele)  |
| <b>Focus Distance</b>                                 | Entire zooming range :1200 mm, Wide end :100 mm  |
| <b>Standard Sensitivity</b>                           | F4/2,000lux(Non-public) *With full auto function<br><br>* Although it is not described in manuals, catalogs, etc., the numerical value is described as a guideline for internal materials. |
| <b>Color Separation Optical Systems</b>               | 1MOS   |
| <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.<br><br>(Super Gain function equipped : 37 dB to 42 dB)  |
| <b>Frame Mix</b>                                      | Auto, 0dB, 6dB, 12dB, 18dB, 24dB<br><br>*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>Synchro Scan</b>                                   | 59.94p / 59.94i mode<br><br>60.0Hz~7200Hz<br>29.97p mode<br>30.0Hz~7200Hz<br>23.98p / 24p mode<br>24.0Hz~7200Hz<br>50p / 50i mode<br>50.0Hz~7200Hz<br>25p mode<br>25.0Hz~7200Hz            |
| <b>Gamma</b>  | HD/NORMAL/CINEMA1/CINEMA2/Still like *Black Gamma is not supported   |

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| <b>Electronic Shutter Speed</b>     | 59.94p / 59.94i mode<br>1/60, 1/100, 1/120, 1/250,<br>1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br><br>29.97p mode<br>1/30, 1/60, 1/100, 1/120, 1/250,<br>1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br><br>23.98p / 24p mode<br>1/24, 1/48, 1/60, 1/100, 1/120, 1/250,<br>1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br><br>50p / 50i mode<br>1/60, 1/100, 1/120, 1/250,<br>1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000<br><br>25p mode<br>1/25, 1/50, 1/60, 1/100, 1/120, 1/250,<br>1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 |
| <b>White Balance</b>                | ATW, 3200K, 5600K<br><br>AWB-A, AWB-B<br><br>VAR (selectable between 2000 K and 15000 K by designating a value)<br>(ATW Speed 3-stage variables.)  |
| <b>Chroma Amount Variability</b>    | OFF, -99%~99%  |
| <b>Output Format (UHD/FHD SDI)</b>  | [4K Format]<br><br>2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native),<br>2160/24p(Native), 2160/23.98p(Native)<br><br>[HD Format]<br><br>1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/29.97PsF,<br>1080/25p(Native), 1080/25PsF, 1080/23.98p over 59.94i, 1080/24p(Native),<br>1080/23.98p(Native), 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p,<br>720/50p  |
| <b>Shine File</b>                   | Full Auto, Scene1, Scene2, Scene3  |
| <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)<br><br>*This unit does not support input by optical signals  |
| <b>12G SDI OUT</b>                  | SMPTE2082-1, SMPTE292M / 75 Ω(BNC×1)<br><br>*Level-A/Level-B supported   |
| <b>3G SDI OUT1</b>                  | SMPTE424M / SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported   |
| <b>LAN</b>                          | LAN connector for IP control ( RJ-45 )   |
| <b>IP Connecting Cable</b>          | if you have PoE++ ethernet hub<br><br>LAN cable *1( category 5e or above, straight cable)Max100 m<br><br>If you don't have PoE++ ethernet hub<br><br>LAN cable*1( category 5e or above, straight cable)Max100 m<br><br>*1 STP(Shielded Twisted Pair) is recommended<br><br>*2 Category 6 or above is used for 4K video transmission.   |
| <b>AW Protocol Connecting Cable</b> | LAN cable*(category 5e or above, straight cable)Max1000 m<br><br>*STP(Shielded Twisted Pair) is recommended  |
| <b>Pan-tilt Head Control</b>        |  |
| <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<br><br>Normal:60°/s, Fast1 :90°/s, Fast2:180°/s  |
| <b>Panning Range</b>                | ±175°  |
| <b>Quietness</b>                    | TBD  |
| <b>Tilting Range</b>                | -30°~ 210  |
| <b>Vibration Correction</b>         | D.I.S.S.(Dynamic Image Stabilizing System)   |
| <b>Supported OS, browsers</b>       | TBD  |
| <b>IP Streaming</b>                 |  |
| <b>Image Streaming Mode</b>         | JPEG(MJPEG), H.264, H.265, NDI/HX, High Bandwidth NDI  |
| <b>Image Resolution</b>             | 3840x2160, 1920x1080, 1280x720, 640x360, 320x180   |

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| <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/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>Supported Protocol</b>                     | <p>Network Protocol:</p> <p>ICMP, ARP, GARP, MLD</p> <p>Transmission Protocol:</p> <p>TCP/IP, UDP/IP</p> <p>Application Protocol:</p> <p>IPv4 : HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP</p> <p>IPv6 : HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP</p> <p>Video Streaming Protocol:</p> <p>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> |
| <b>Audio Compression Type</b>                 | AAC-LC, 48kHz/16bit/2ch   |
| <b>NDI (High Bandwidth NDI, NDI/HX Ver.2)</b> |   |
| <b>Image Resolution (NDI HX Ver.2)</b>        | 1920x1080, 1280x720   |

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| <b>Image Streaming Setting</b>     | High Bandwidth NDI<br>Transmission Type : TCP/UDP Multicast<br>Bit Rate : Max 250Mbps<br><br>NDI/HX:<br>Transmission Type :Unicast port (AUTO)<br>Unicast port (MANUAL)<br>Multicast port<br><br>Frame Rate<br>[60Hz]<br>5fps/15fps/30fps/60fps(UHD is 30fps, 60fps only)<br>[50Hz]<br>5fps/12.5fps/25fps/50fps(UHD is 25fps, 50fps only)<br><br>Max Bit Rate<br>512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/<br>4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/<br>16384kbps/20480kbps/24576kbps |
| <b>Audio Compression Type 2</b>    | NDI:AAC, 48kHz, 2ch<br>NDI/HX:AAC-LC, 48kHz/16bit/2ch   |
| <b>F Number Display</b>            | Displayed on the AW-RP150GJ and AW-RP60GJ sides   |
| <b>NDI</b>                         | High Bandwidth NDI,NDI HX included as standard  |
| <b>RS-422</b>                      | CONTROL IN RS422A (RJ-45)   |
| <b>Image Stabilization</b>         | TBD   |
| <b>Privacy Mode</b>                | The lens surface faces backward when standing by (ON/OFF)   |
| <b>New Feature</b>                 |   |
| <b>IP menu display</b>             | supported *Non-synchronous with SDI-OUT   |
| <b>VR (FreeD) (IP/RS422)</b>       | supported   |
| <b>Wireless Remote Controller</b>  |   |
| <b>Horizontal display function</b> | TBD   |