



**First 4K 60p/50p\*1 PTZ Camera supporting NDI®\*2 and SRT\*3 in the world\*4**

## AW-UE100

Supports high bandwidth NDI® for low latency transmission of high-quality 4K 60p/50p\*1 video, and SRT\*3 for high-quality and stable transmission, and also compatible with 12G-SDI output for use in a wide range of situations, from live streaming of events to studio production.

### Key Features

Supports a wide variety of IP transmission protocols, including NDI®\*2, NDI® |HX\*5, and SRT\*3

Supports 4K 60p/50p\*1 shooting and 12G-SDI output

Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom

Supports Freed\*1 for building AR/VR\*2 systems

Adopts new mechanical pan/tilt for improved responsiveness and quietness





## AW-UE100

<https://latam.connect.panasonic.com/br/es/productos/broadcast-y-proav/aw-ue100>

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| <b>General -&gt; Power Requirements</b>                  | 12 V DC (10.8 V to 13.2 V) (Supplied AC adaptor), 42 V to 57 V DC (PoE++ power supply)  |
| <b>General -&gt; PoE</b>                                 | PoE++<br><br>IEEE802.3bt standard: DC 42 V to 57 V<br><br>(Software authentication (LLDP) is supported)   |
| <b>General -&gt; Current Consumption</b>                 | 3.0 A (Supplied AC adaptor), 1.0 A (PoE++ power supply)   |
| <b>General -&gt; Ambient Operating Temperature</b>       | 0 °C to 40 °C (32 °F to 104 °F)   |
| <b>General -&gt; Ambient Operating Humidity</b>          | 20 % to 90 % (no condensation)  |
| <b>General -&gt; Storage Temperature</b>                 | -20 °C to 50 °C (-4 °F to 122 °F)   |
| <b>General -&gt; Weight</b>                              | Approx. 2.2 kg (4.84 lb) (excluding cable cover, mount bracket)<br><br>Approx. 2.3 kg (5.06 lb) (including cable cover, excluding mount bracket)  |
| <b>General -&gt; Dimensions</b>                          | W 169.2 mm x H 204.6 mm x D 170.6 mm<br><br>(6-21/32 inches x 8-1/16 inches x 6-23/32 inches)<br><br>(excluding protrusions, cable cover, mount bracket)  |
| <b>General -&gt; Finish</b>                              | AW-UE100WP/AW-UE100WPC/AW-UE100WE/AW-UE100WED: Pearl white<br>AW-UE100KP/AW-UE100KPC/AW-UE100KE/AW-UE100KED: Black  |
| <b>General -&gt; Controller Supported</b> *1             | See the "Compatibility Chart for Operation Devices and Application Software" page   |
| <b>Camera Unit -&gt; Imaging Sensor</b>                  | 1/2.5-type 4K MOS x 1   |
| <b>Camera Unit -&gt; Effective Pixels</b>                | Approx. 8,490,000 pixels  |
| <b>Camera Unit -&gt; Zoom</b>                            | • Optical zoom: 24x<br><br>• i.Zoom: UHD 28x, FHD 36x<br><br>• Digital zoom: 1.4x, 2x   |
| <b>Camera Unit -&gt; Lens</b>                            | Motorized Optical 24x zoom, F1.8 to F4.0<br><br>[f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches);<br><br>35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)] |
| <b>Camera Unit -&gt; Conversion Lens</b>                 | Not supported   |
| <b>Camera Unit -&gt; Angle of View Range</b>             | Horizontal angle of view: 74.1° (wide) to 3.3° (tele)<br><br>Vertical angle of view: 46.0° (wide) to 1.9° (tele)<br><br>Diagonal angle of view: 81.8° (wide) to 3.8° (tele)                       |
| <b>Camera Unit -&gt; Optical Filter -&gt; ND Filter</b>  | Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")   |
| <b>Camera Unit -&gt; Focus</b>                           | Switching between auto and manual   |
| <b>Camera Unit -&gt; Focus Distance</b>                  | Entire zooming range: 1200 mm (3.9 ft)<br><br>Wide end: 100 mm (0.33 ft)  |
| <b>Camera Unit -&gt; Color Separation Optical System</b> | 1MOS  |
| <b>Camera Unit -&gt; Standard Sensitivity</b>            | F4, 2000 lx (When normal mode is selected)<br><br>F5.6, 2000 lx (When High Sens mode is selected)   |
| <b>Camera Unit -&gt; Minimum Illumination</b>            | 3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)   |
| <b>Camera Unit</b>                                       | 60dB(typ) (When [Shooting Mode] is [Normal])  |
| <b>Camera Unit -&gt; Horizontal Resolution</b>           | > 4K<br>-1500 TV lines Typ (Center area)  |

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| <b>Camera Unit -&gt; Gain Selection</b> *2                            | Auto, 0 dB to 36 dB *1  |
|   | Super Gain function equipped : 37 dB to 42 dB   |
| <b>Camera Unit -&gt; Frame Mix</b> *3                                 | Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB   |
| <b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 59.94p/59.94i</b> | 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   |
| <b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 50p/50i</b>       | 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   |
| <b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 29.97p</b>        | 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   |
| <b>Camera Unit -&gt; Electronic Shutter Speed -&gt; 25p</b>           | 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>Camera Unit -&gt; Electronic Shutter Speed -&gt; 23.98p/24p</b>    | 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   |
| <b>Camera Unit -&gt; Synchro Scan -&gt; 59.94p/59.94i</b>             | 60.00 Hz to 7200 Hz   |
| <b>Camera Unit -&gt; Synchro Scan -&gt; 50p/50i</b>                   | 50.00 Hz to 7200 Hz   |
| <b>Camera Unit -&gt; Synchro Scan -&gt; 29.97p</b>                    | 30.00 Hz to 7200 Hz   |
| <b>Camera Unit -&gt; Synchro Scan -&gt; 25p</b>                       | 25.00 Hz to 7200 Hz   |
| <b>Camera Unit -&gt; Synchro Scan -&gt; 23.98p/24p</b>                | 24.00 Hz to 7200 Hz   |
| <b>Camera Unit -&gt; Gamma</b>  | HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3  |
| <b>Camera Unit -&gt; White Balance</b>                                | ATW : 3200K, 5600K  |
|   | AWB : AWB-A / AWB-B   |
|   | VAR (selectable between 2000K and 15000K by designating a value)  |
| <b>Camera Unit -&gt; Chroma Amount Variability</b>                    | OFF, -99 % to 99 %  |
| <b>Camera Unit -&gt; Scene File</b>                                   | Scene1, Scene2, Scene3, Scene4  |
| <b>Camera Unit -&gt; Output Format (SDI) 4K</b>                       | ->2160/59.94p, 2160/50p, 2160/29.97p *3, 2160/25p *3, 2160/24p *3, 2160/23.98p *3   |
| <b>Camera Unit -&gt; Output Format (SDI) HD</b>                       | ->1080/59.94p, 1080/50p, 1080/29.97p *3, 1080/29.97PsF, 1080/25p *3, 1080/25PsF, 1080/23.98p *4, 1080/24p *3, 1080/23.98p *3, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p |
| <b>Camera Unit -&gt; Output Format (HDMI) -&gt; 4K</b>                | 2160/59.94p, 2160/50p, 2160/29.97p *3, 2160/25p *3, 2160/24p *3, 2160/23.98p *3   |
| <b>Camera Unit -&gt; Output Format (HDMI) -&gt; HD</b>                | 1080/59.94p, 1080/50p, 1080/29.97p *3, 1080/25p *3, 1080/23.98p, 1080/24p *3, 1080/23.98p *3 *10, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p  |
| <b>Synchronization System</b>   | Internal/External synchronization (BBS/Tri-level sync)  |
| <b>Input Connector -&gt; DC IN</b>                                    | DC 12 V IN  |
| <b>Input Connector -&gt; G/L IN</b>                                   | BBS (Black Burst Sync), tri-level sync supported  |
|   | 75 Ω terminal (BNCx1)   |

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| <b>Input Connector -&gt; AUDIO INPUT -&gt; Stereo Mini Jack</b>                  | Compatible (SDI/HDMI/IP)   |
|  | AAC compatible (compatible with IP only)   |
|  | Ø 3.5 mm stereo mini jack  |
|  | Input impedance: Approx. 10 kΩ (unbalanced)  |
|  | • During MIC input   |
|  | Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz)  |
|  | Plug-in power compatible, supply voltage: 2.5 V ± 0.5 V                                |
|  | • During LINE input  |
|  | Input level: -10 dBV   |
|  | • Input volume variable range: -36 dB to 12 dB (3 dB step)                             |
|  | • Embedded audio output level: -12 dBFS  |
|  | • Sampling frequency: 48 kHz   |
|  | • Quantization bit rate: 24bit (SDI, HDMI), 16bit (IP)                                 |
| <b>Output Connector -&gt; HDMI</b>   | HDMI 2.0 connector   |
|  | 4:2:2/10bit  |
|  | • HDCP is not supported.   |
|  | • Viera Link is not supported.   |
| <b>Output Connector -&gt; 12G-SDI OUT</b>  | SMPTE 2082-1, SMPTE424M/SMPTE292M / 75 Ω (BNC x 1)                                     |
|  | • Level-A/Level-B supported  |
| <b>Output Connector -&gt; 3G-SDI OUT</b>   | SMPTE424M/SMPTE292M / 75 Ω (BNC x 1)   |
|  | • Level-A/Level-B supported  |
| <b>Input/Output Connector -&gt; LAN</b>  | LAN terminal for IP control and video transmission (RJ-45) 100BASE-TX/1000BASE-T       |
|  | PoE++ power terminal (IEEE802.3bt compliant)   |
| <b>Input/Output Connector -&gt; RS-422</b>                                       | CONTROL IN RS-422A (RJ-45)   |
| <b>Pan-tilt Head Unit -&gt; IP connecting cable</b>                              | LAN cable <sup>*5</sup> :(category 5e or above, straight cable), max. 100 m (328 ft)   |
| <b>Pan-tilt Head Unit -&gt; AW protocol connecting cable</b>                     | LAN cable <sup>*5</sup> :(category 5e or above, straight cable), max. 1000 m (3280 ft) |
| <b>Pan-tilt Head Unit -&gt; Installation Method</b>                              | Stand-alone (Desktop) or suspended (Hanging) <sup>*6</sup>                             |
| <b>Pan-tilt Head Unit -&gt; Pan/tilt Operation Speed</b>                         | Speed range: 0.08°/s to 60°/s (Normal mode)  |
|  | • 3 speed modes installed  |
|  | Normal: 60°/s, Fast1: 90°/s <sup>*7</sup> , Fast2: 180°/s <sup>*7</sup>                |
| <b>Pan-tilt Head Unit -&gt; Panning Range</b>                                    | ±175°  |
| <b>Pan-tilt Head Unit -&gt; Tilting range</b>                                    | -30° to 210° <sup>*8</sup>   |
| <b>Pan-tilt Head Unit -&gt; Quietness</b>  | NC25 or less   |
| <b>Supported Operating Systems and Web Browsers -&gt; Windows <sup>*11</sup></b> | Microsoft® Windows® 10   |
|  | Microsoft Edge   |
|  | Google Chrome  |
| <b>Supported Operating Systems and Web Browsers -&gt; Mac <sup>*11</sup></b>     | MacOS 10.13/Safari 13, MacOS 10.14/Safari 13   |
|  | MacOS 10.15/Safari 13, MacOS 10.15/Google Chrome                                       |

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| <b>Supported Operating Systems and Web Browsers -&gt; iPhone/iPad *11</b>            | iOS   |
|  | Safari  |
|  | iPadOS  |
| <b>Supported Operating Systems and Web Browsers -&gt; Android *9</b>                 | Android OS  |
|  | Google Chrome   |
| <b>IP Streaming -&gt; Image Streaming Mode</b>                                       | JPEG (MJPEG), H.264, H.265, NDI®  HX, High Bandwidth NDI®   |
| <b>IP Streaming -&gt; Image Resolution</b>   | 3840x2160, 1920x1080, 1280x720, 640x360, 320x180  |
| <b>IP Streaming -&gt; Image Transmission Setting (JPEG)</b>                          | Frame Rate: Maximum 30 fps  |
|  | Image quality (Fine / Normal)   |
| <b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission Type</b> | Unicast port (AUTO)   |
|  | Unicast port (MANUAL)   |
|  | Multicast port  |
| <b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Transmission mode</b> | Constant bit rate   |
|  | Frame rate  |
|  | Best effort   |
| <b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Frame Rate</b>        | [60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps)   |
|  | [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)   |
| <b>IP Streaming -&gt; Image Transmission Setting (H.264) -&gt; Max Bit Rate</b>      | 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps /                              |
|  | 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps / 32768kbps / 40960kbps / 51200kbps / 76800kbps         |
| <b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Transmission Type</b> | Unicast port (AUTO)   |
|  | Unicast port (MANUAL)   |
|  | Multicast port  |
| <b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Frame Rate</b>        | [60Hz] 30fps  |
|  | [50Hz] 25fps  |
| <b>IP Streaming -&gt; Image Transmission Setting (H.265) -&gt; Max Bit Rate</b>      | 8192kbps / 12288kbps / 25600kbps / 51200kbps / 76800kbps  |
| <b>IP Streaming -&gt; Audio Compression Format</b>                                   | AAC-LC, 48 kHz / 16 bit / 2ch   |
| <b>IP Streaming -&gt; Supported Protocol -&gt; IPv6</b>                              | TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT, SNMP, MPEG2-TS over UDP                        |
| <b>IP Streaming -&gt; Supported Protocol -&gt; IPv4</b>                              | TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT, SNMP, MPEG2-TS over UDP |
| <b>NDI® Support -&gt; NDI® Support</b>   | NDI®  HX version 2 : Included as standard   |
|  | High Bandwidth NDI®: Included as standard   |
| <b>Other Function -&gt; Tally LED Display Color</b>                                  | red / green   |

1. 1 dB steps.
2. This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/23.98p(59.94i), 1080/29.97PsF, 1080/23.98PsF, 1080/25p, 1080/25PsF.
3. Native output.
4. OVER 59.94i output (your monitor may recognize the signal as 59.94i).
5. Use of an STP (shielded twisted pair) cable is recommended.
6. To ensure safety, the unit must be secured using the mount bracket supplied.
7. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode.
8. Depending on the pan or tilt position, the camera may be reflected in the image.
9. Supported OS indicated are for browsers current as of August 2020. See "Service and Support / PASS" for the latest information on browser support.
10. It denotes "1080/23.98p over 59.94p"

