



Cámara PTZ 4K para una era de creatividad mejorada y la búsqueda de la expresión visual.

AW-UE160

La cámara PTZ 4K AW-UE160 cuenta con un sensor MOS 4K de 1" recientemente desarrollado que ofrece la mayor sensibilidad de toda la línea PTZ de Panasonic. Los equipos de producción que filman en una sala de conciertos o una iglesia pueden capturar fácilmente imágenes claras incluso en las condiciones de iluminación más desafiantes. Mientras tanto, el nuevo filtro óptico de paso bajo de la UE160 reduce el efecto del moiré para una calidad de imagen más clara al disparar contra una pared LED, lo cual es especialmente importante para entornos de alquiler y puesta en escena o culto. Su velocidad de fotogramas de alta velocidad ayudará a las emisoras deportivas a capturar tomas en cámara lenta en HD para repeticiones, mientras que la integración perfecta con el sistema de cámara robótica trae movimientos de estilo de transmisión en vivo a la PTZ, lo

Key Features

Rendimiento de disparo y operatividad sin concesiones

El filtro óptico de paso bajo reduce significativamente el moiré

Enfoque automático significativamente mejorado con tecnología avanzada

Enfoque automático significativamente mejorado con tecnología avanzada

Compatibilidad con SMPTE 2110 mediante la compra de una clave de software adicional

Realiza una producción de vídeo de última generación con diversos modos y opciones de rodaje.

La facilidad de uso y la versatilidad reducen el estrés del rodaje in situ





AW-UE160

<https://latam.connect.panasonic.com/bo/es/products/broadcast-proav/aw-ue160>

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| Power | 12VDC±10%(10.8V to 13.2V) |
| Requirements | |
| PoE++ | IEEE802.3bt standard :DC 42 V to 57V (Camera Input)*Limited in function when PoE used.(Software authentication (LLDP) is supported) |
| Current | 5.0 A (XLR IN connector), 1.5A (PoE++ power supply) |
| Consumption | |
| Ambient Operating Temperature | 0 °C to +40 °C (32 °F to +104 °F) |
| Ambient Operating Humidity | 20 % to 90 % (no condensation) |
| Storage Temperature | -20 °C to +50 °C (-4 °F to +122 °F) |
| Mass | Approx. 4.6kg (10.14lbs) (excluding mount bracket) |
| Dimensiones (AnxAxP) | 213.0 mm x 277.0 mm x 240.0 mm (8.39inches x 10.91inches x 9.45inches) [excluding protrusions, cable cover, ceiling mount bracket] |
| Finish | AW-UE160W : Pearl White AW-UE160K : Black |
| Controller Supported | AW-RP150 , AW-RP60 , AK-HRP1010 , AK-HRP1015 , AK-HRP250 *IP only. Other ROP will be compatible in the future. **Digext Certification operation of AW-RP150 and AW-RP60 are not guaranteed. |
| Camera Unit | - |
| Imaging Sensors | 1-type (1")* 4K MOSx1 *Effective size Effective Pixels: Approx. 9,620,000 pixels |
| Lens | Motorized Optical 20x Zoom F2.8 to F4.5(f=8.8 mm to 176.0 mm, 35mm equivalent:24.5 mm to 490.0 mm) |
| Zoom | • Optical Zoom: 20x• i.Zoom: UHD 24x, FHD 32x• Digital Extender Zoom: 1.4x, x |
| Conversion Lens | Not Supported |
| Angle of View Range | Horizontal: 75.1°(wide) to 4.0°(tele) Vertical: 46.7°(wide) to 2.3°(tele) Diagonal: 82.8°(wide) to 4.6°(tele) |
| Optical Filter | Through, 1/4, 1/16, 1/64 *equipped with Low pass filter(Through is used as "night mode") |
| Focus | Switching between auto and manual |
| Focus Distance | Entire zooming range: 1000 mm, Wide end: 100 mm |
| Color | 1MOS |
| Separation Optical Systems | |
| Standard Sensitivity | F1 1/2,000lux (Normal), F14/2,000lux (Low Light) |
| Horizontal Resolution | 1,600 TV Typ (center area, UHD Mode, Wide) |
| Gain Selection | Auto, -6dB to 12dB *1 dB step increments can be set. |
| Frame Mix | Auto, 0dB, 6dB, 12dB, 18dB, 24dB*If format is set in 1080/119.88p, 1080/100p, 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 | 60p: 1/60, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 59.94p/59.94i: 1/60, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 50p/50i: 1/60, 1/100, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 29.97p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 25p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 23.98p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 24p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 59.94p- 120fps: 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| | 50p- 100fps: 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 |
| Synchro Scan | 60p: 60.00Hz to 7,200Hz 59.94p/59.94i: 60.00Hz to 7,200Hz 50p/50i: 50.00Hz to 7,200Hz 29.97p: 30.00Hz to 7,200Hz 25p: 25.00Hz to 7,200Hz 23.98p: 24.00Hz to 7,200Hz 59.94p- 120fps: 120Hz to 7,200Hz 50p- 100fps: 100Hz to 7,200Hz |
| Gamma | HD / NORMAL / CINEMA1 / CINEMA2 *HLG is set in other menu MASTER GAMMA (0.15~0.75)R GAMMA (-75~+75)B GAMMA (-75~+75) R BLACK GAMMA (-20~+20)B BLACK GAMMA (-20~+20) |
| 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, -100% to 40% |
| Scene File | Scene 1 to 8 |
| Output Format (UHD/FHD SDI) | 4K 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. HD 1080/119.88p*, 1080/100p*, 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p*1080/119.88p and 1080/100p use two 3G/SDI OUTPUT1/2 channels.*No output from 12G/SDI. |
| Output Format (HDMI) | 4K 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. HD 1080/119.88p, 1080/100p, 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 720/59.94p, 720/50p |

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| Output Format | 4K |
| (Fiber(Only Video)) | 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. |
| | HD |
| | 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p |
| Output Format | HD |
| (ST 2110) | 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 720/59.94p, 720/50p |
| Synchronization | Internal/External synchronization (BBS/Tri-level sync) |
| System | |
| Input | DC 12 V IN, G/L IN(BNC) |
| G/L In | BBS (Black Burst Sync), tri-level sync supported) |
| AUDIO INPUT | XLR(2ch) or MIC/LINE Input compatibles /HDMI /IP/AAC compatibility (compatible with IP only)3-pin XLR female connectors, 2ch, balanced input · During MIC input Input level: -50dBu or -60dBu/-40dBu(0 dB=1 V/Pa, 1 kHz) Phantom power compatible, Supply voltage:47 V±2 V Input impedance: Approx. 10kΩ · During LINE input Input level : 0 dBu (or +4dBu/-20dBu) Input impedance: Approx. 10kΩ · Input volume variable range: -40 dB ~ 0dB ~ +20 dB (1 dBstep) · Embedded audio output level: -12dBFS/-18dBFS/-20dBFS · Sampling frequency: 48 kHz · Quantization bit rate : 24 bit(SDI, HDMI), 16bit(IP) |
| Output | - |
| HDMI | HDMI 2.0 connector 4:2:2/10bit *HDCP is not supported. *Viera Link is not supported. |
| 12G SDI OUT | SMPTE2082-1, SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported |
| 3G SDI OUT1 | SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported |
| 3G SDI OUT2/PM | SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported |
| SFP+ | SFP+ standard (Single Fiber) *This unit does not support input by optical signals MSA standard compliant product |
| USB | USB3.0 HOST(5G mobile router with USB tethering support) *Limited power supply to USB Wifi dongle. |
| Input/Output | - |
| LAN | LAN connector for IP control (RJ-45) |
| RS-422 | CONTROL IN RS422A (RJ-45) |
| SFP+(ST 2110) | Compatible protocol: -ST 2110-10/-20/-21/-30 -PTP ST 2059-2 -NMOS IS-04/IS-05 Output number: Video x3 (Full, Crop, Monitor), Audio x2 Input number: Video x1 (RETURN) Video format: FHD *Same as system format |
| Pan-tilt Head Control | - |
| IP Connecting Cable | · If you have PoE++ ethernet hub LAN cable *1 (category 5e or above, straight cable) max. 100 m (328 ft) · If you don't have PoE++ ethernet hub LAN cable *1 (category 5e or above, straight cable) max. 100 m (328 ft) *1 STP(Shielded Twisted Pair) is recommended *2 Category 6 or above is used for 4K video transmission. |
| AW Protocol Connecting Cable | LAN cable*(category 5e or above, straight cable) max. 1000 m (3280 ft) *STP (Shielded Twisted Pair) is recommended |
| Pan-Tilt Head Unit | - |
| Installation Method | Stand-alone (Desktop) or suspended (Hanging) *To ensure safety, the unit must be secured using the mount bracket supplied. |
| Pan/Tilt Operation Speed | Speed range: 0.08 °/s ~180°/s(Normal mode) 3 speed modes installed: Normal: ~60°/s, Fast1: ~90°/s, Fast2: ~180°/s |
| Panning Range | ±175° |
| Tilting Range | -30°~ 210° *Depending on the pan or tilt position, the camera may be reflected in the image. |

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| Quietness | NC35 or less *When standing still, NC25 or less |
| Supported operating systems and web browsers | - |
| Windows | Windows®10 Microsoft Edge Google Chrome |
| Mac | macOS 10.13 / Safari 13 macOS 10.14 / Safari 13 macOS 10.15 / Safari 13 macOS 10.15 / Google Chrome |
| iPhone / iPad / iPod touch | iOS, Safari, iPadOS |
| Android | Android OS Google Chrome |
| IP Streaming | - |
| Image Streaming Mode | JPEG(MJPEG), H.264, H.265, NDI®*1 HX Ver2, NDI®*1 High Bandwidth |
| Image Resolution | 3840x2160, 1920x1080, 1280x720, 640x360 |
| Image Transmission setting (JPEG) | <ul style="list-style-type: none"> • Frame rate : Max. 30fps *No bit rate specified *JPEG and H.264, JPEG and H.265 simultaneous operation depends on bit rate • Image quality: Fine/Normal |
| Image Transmission Setting (H.264) | <ul style="list-style-type: none"> • Transmission Type : Unicast port (AUTO), Unicast port (MANUAL), Multicast port • Transmission mode :CBR, VBR • Frame Rate [60Hz] 5fps/15fps/30fps/60fps (UHD: 30fps,60fps) [50Hz] 5fps/12.5fps/25fps/50fps (UHD: 25fps,50fps) • Max to Min Bit Rate: 2048kbps/4096kbps/8192kbps/10240kbps/12288kbps/14336kbps/20480kbps/24576kbps/51200kbps/76800kbps |
| Image Transmission Setting (H.265) | <ul style="list-style-type: none"> • Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port • Transmission Mode: CBR,VBR Frame Rate [60Hz] 30fps / 60fps [50Hz] 25fps / 25fps • Max to Min Bit Rate: 2048kbps/4096kbps/8192kbps/10240kbps/12288kbps/14336kbps/20480kbps/24576kbps/51200kbps/76800kbps |
| Audio Compression Type | AAC-LC, 48kHz/16bit/2ch |
| Supported Protocol | <ul style="list-style-type: none"> • Network Protocol: ICMP, ARP, GARP, MLD • Transmission Protocol: TCP/IP, UDP/IP • Application Protocol: IPv4 : HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP, 802.1X IPv6 : HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP, 802.1X • 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, Unicast/Multicast |
| | Bit Rate: Max. 250Mbps |
| | • NDI®*1 HX version.2: |
| | Transmission Type: TCP/UDP, Unicast/Multicast |
| | Frame Rate: |
| | [60Hz] 5fps/15fps/30fps/60fps |
| | [50Hz] 5fps/12.5fps/25fps/50fps |
| | Max Bit Rate: |
| | 512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps |
| | /6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps |
| Audio Compression Type 2 | NDI®*1 High Bandwidth: AAC, 48kHz, 2ch |
| | NDI®*1 HX Ver.2: AAC-LC, 48kHz/16bit/2ch |
| ST 2110 | |
| Supported Format | ST 2110: 10/20/21/30 |
| | PTP: ST 2059-2 |
| | NMOS: IS-04/IS-05 |
| Number of Output (TX) | Video: 3 line (Full x1, MONI x1.Crop x1) |
| | Audio: 2 line |
| | Auxiliary data: No output |
| Number of Input (RX) | Video: 1 line(RETURN)*Out from 3G SDI OUT2(Video is changed in the OSD menu) |
| | Audio: No input |
| | Auxiliary data: No input |
| Output Format | • Video Format (Full x1, MONI x1.Crop x1, all of these same format) 1080/60p, 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 1080/24p, 1080/23.98p(Native), 720/59.94p, 50p • Audio Specification INPUT1/INPUT2 PCM/48kHz/24bit/1ch x2 |
| Input Format | Video Format (Full x1, MONI x1.Crop x1, all of these same format)1080/60p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native) 1080/24p, 1080/23.98p(Native), 720/59.94p, 50p |
| New Feature | - |
| HDR/SDR | HLG/BT.2020 compatible, SDR/BT.709 compatible |
| Cropping | Select from 3 types of images from 3G/SDI OUTPUT2, Crop Zoom available |
| F Number Display | Displayed on the AW-RP150 and AW-RP60 sides |
| NDI | NDI®*1 High Bandwidth, NDI®*1 HX Ver.2 included as standard |
| IP menu display | supported *Non-synchronous with SDI-OUT |
| VR (FreeD) (IP/RS422) | supported |
| Power LED | ON/OFF control |
| Tripod Screw Penetration Measures | Possible |
| Image Stabilization | Hybrid method of OIS 2-axis + Roll direction correction |
| | MENU switching: |
| | select between OFF / O.I.S.(STABLE) / O.I.S.(PAN/TILT) / HYBRID(STABLE) / HYBRID(PAN/TILT) |
| Privacy Mode | The lens surface faces downward when standing by (ON/OFF) |
| Yellow Tally | supported |
| WFM display | Output with video superimposed from 3G/SDI OUTPUT2 |
| PTP | supported |
| 5G/WiFi 6 | Compatible with recommended products only |
| Return Video Output | Output return video input from ST 2110 via SDI_OUT2 |
| Horizontal Level Gauge | ON/OFF control in OSD MENU or Web GUI |
| Optional Accessories | - |

Wireless Remote Controller AW-RM50AG (Size "AA" dry battery x 2, obtained separately)

4K

2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p

HD

1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
3840x2160, 1920x1080, 1280x720

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