Panasonic CONNECT



"New Professional-use PTZ Camera: New Standard for Video Expressiveness and Operational Versatility"

AW-UE150A

Panasonic's new 4K PTZ camera (AW-UE150AW/AK) meets the demands for advanced video production by setting new standard for video expressiveness and operational versatility. Building on its predecessor, the widely used AW-UE150W/K released in 2018, the AW-UE150AW/AK introduces new capabilities for enhanced video quality and flexible operation. In addition to improved pan, tilt, and zoom synchronization, it supports NDI® High Bandwidth for optimal remote-production workflows. * NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.

Key Features

- Exceptional Performance for Capturing Immersive Moments
- Flexible Adaptation to Diverse Environments
- Advanced Features for Expanded Creative Possibilities

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https://latam.connect.panasonic.com/br/en/products/broadcast-proav/aw-ue150a

General -> Power Requirements	DC12 V(10.8 V to 24.0 V)
General -> PoE	IEEE802.3 bt standard : DC42 V to 57 V (Software authentication (LLDP) is supported).
General -> Current Consumption	4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
General -> Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
General -> Ambient Operating Humidity	20 % to 90 % (no condensation)
General -> Storage Temperature	–20 °C to 50 °C (–4 °F to 122 °F)
General -> Weight	Approx. 4.3 kg (9.48 lbs) (excluding mount bracket)
General -> Dimensions	213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches) (excluding protrusions, cable cover,direct ceiling mount bracket)
General -> Finish	AW-UE150AW: Pearl white AW-UE150AK: Black
General -> Controller Supported	AW-RP150GJ、AW-RP60GJ、AK-HRP1010GJ[*1]、AK-HRP1015GJ[*1]、AK-HRP1000GJ[*1]、AK-HRP1005GJ[*1]、AK-HRP250GJ[*1]
Camera Unit -> Imaging Sensor	1-type 4K MOSx1
Camera Unit -> Effective Pixels	Approx 20,180,000 pixel
Camera Unit -> Zoom	・Optical zoom: 20x ・i.Zoom: UHD 24x, FHD 32x
Camera Unit -> Lens	Motorized Optical 20x zoom, F2.8 to F4.5 [f=8.8 mm (11/32 inches) to 176.0 mm (6-15/16 inches); 35 mm (1-3/8 inches) equivalent: 24.5 mm (31/32 inches) to 490.0 mm (19-9/32 inches)]
Camera Unit -> Conversion Lens	Not supported
Camera Unit -> Angle of View Range	Horizontal angle of view: 75.1° (wide) to 4.0° (tele) Vertical angle of view: 46.7° (wide) to 2.3° (tele) Diagonal angle of view: 82.8° (wide) to 4.6° (tele)
Camera Unit -> Optical Filter -> ND Filter	Through, 1/4, 1/16, 1/64, IR through (IR through is used as “Night mode”)
Camera Unit -> Focus	Switching between auto and manual
Camera Unit -> Focus Distance	Entire zooming range: 1000 mm (3.3 ft) Wide end: 100 mm (0.33 ft)
Camera Unit -> Color Separation Optical System	1MOS
Camera Unit -> Standard Sensitivity	F9, 2000 lx
Camera Unit -> Minimum Illumination	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
Camera Unit -> Horizontal Resolution	2,000 TV lines Typ (Center area)
Camera Unit -> Gain Selection	Auto, -3 dB to 36 dB ・1 dB step increments can be set. Super Gain function equipped : +37 dB to 42 dB
Camera Unit -> Frame Mix[*2]	0 dB, 6 dB, 12 dB, 18 dB, 24 dB
Camera Unit -> Electronic Shutter Speed -> 59.94p/59.94i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 50p/50i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000

Camera Unit -> Electronic Shutter Speed -> 25p	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 23.98p/24p	1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Synchro Scan -> 59.94p/59.94i	60.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 50p/50i	50.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 29.97p	30.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 25p	25.00 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 23.98p/24p	24.00 Hz to 7200 Hz
Camera Unit -> Gamma	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3/ FILM REC / VIDEO REC
Camera Unit -> White Balance	ATW : 3200K, 5600K ・ATW Speed 3-stage variables AWB : AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)
Camera Unit -> Chroma Amount Variability	OFF, –99 % to 99 %
Camera Unit -> Scene File	Scene1, Scene2, Scene3, Scene4
Camera Unit -> Output Format(UHD/FHD SDI) -> 4K*3	2160/59.94p、2160/50p、2160/29.97p(Native)、2160/25p(Native)、2160/24p(Native)、2160/23.98p(Native)
Camera Unit -> Output Format(UHD/FHD SDI) -> HD*3	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
Camera Unit -> Output Format(UHD/FHD Fiber) -> 4K*3	2160/59.94p、2160/50p、2160/29.97p(Native)、2160/25p(Native)、2160/24p(Native)、2160/23.98p(Native)
Camera Unit -> Output Format(UHD/FHD Fiber) -> HD*3	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
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input Connector -> G/L IN (BNC)	・BBS (Black Burst Sync), tri-level sync supported
Input Connector -> MIC/LINE Input	MIC/LINE input compatible (SDI/HDMI/IP) AAC compatible (compatible with IP only) ø 3.5 mm stereo mini jack (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 Input impedance: Approx. 2 kΩ (When plug-in power is ON) Approx. 20 kΩ (When plug-in power is OFF) ・During LINE input Input level: –10 dBV Input impedance: Approx. 3 kΩ ・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)
Output Connector -> HDMI	HDMI 2.0 connector 4:2:2/10bit ・HDCP is not supported. ・Viera Link is not supported.
Output Connector -> 12G-SDI OUT	SMPTE 2082-1/SMPTE 2081-1/SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1) ・Level-A/Level-B supported
Output Connector -> 3G-SDI OUT1	SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1) ・Level-A/Level-B supported
Output Connector -> 3G-SDI OUT2/PM	SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1) ・Level-A/Level-B supported
Output Connector -> SFP+	SFP+ standard The signal sent is the same as 12G SDI OUT. ・This unit does not support input by optical signals ・Use a module conforming to the MSA specification.

Input/Output Connector -> LAN	LAN connector for IP control (RJ-45)
Input/Output Connector -> RS-422	CONTROL IN RS-422A (RJ-45)
Pan-tilt Head Unit -> IP connecting cable *5	・When there is a PoE++ Ethernet hub LAN cable*4 (category 5e or above, straight cable), max. 100 m (328 ft) ・When there is no PoE++ Ethernet hub LAN cable*4 (category 5e or above, straight cable), max. 100 m (328 ft)
Pan-tilt Head Unit -> AW protocol connecting cable	LAN cable*4 (category 5e or above, straight cable), max. 1000 m (3280 ft) ・Use category 6 or better for 4K video transmissions.
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 Head Unit -> Pan/tilt Operation Speed	Speed range: 0.08°/s to 180°/s (During manual operation) ・3 speed modes installed Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s ・Note that the operating noise may be loud in high speed. ・If the operating noise is disturbing, use the Normal mode.
Pan-tilt Head Unit -> Panning Range	±175°
Pan-tilt Head Unit -> Tilting range	–30° to 210° ・Depending on the pan or tilt position, the camera may be reflected in the image.
Pan-tilt Head Unit -> Quietness	NC35 or less (Up to 60°/s in Normal mode)
Supported Operating Systems and Web Browsers -> Windows	Microsoft® Windows® 10 Microsoft® Windows® 11 Microsoft Edge Google Chrome
Supported Operating Systems and Web Browsers -> Mac	macOS 14 macOS 13 macOS 12 Safari Google Chrome
Supported Operating Systems and Web Browsers -> iPhone/iPad	iOS iPadOS Safari
Supported Operating Systems and Web Browsers -> Android	Android OS Google Chrome
IP Streaming -> Image Streaming Mode	JPEG (MJPEG), H.264, H.265,NDI® HX2,NDI® High Bandwidth
IP Streaming -> Image Resolution	3840x2160, 1920x1080, 1280x720, 640x360, 320x180
IP Streaming -> Image Transmission Setting (JPEG)	Frame Rate: Maximum 30 fps Image quality (Fine / Normal)
IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type	Unicast port (AUTO) Unicast port (MANUAL) Multicast port
IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode	Constant bit rate Frame rate Best effort
IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD: 30fps, 60fps) [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD: 25fps, 50fps)
IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps /6144kbps / 8192kbps / 10240kbps 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps / 32768kbps / 40960kbps / 51200kbps / 76800kbps
IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type	Unicast port (AUTO) Unicast port (MANUAL) Multicast port

IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate	[60Hz] 30fps/60fps [50Hz] 25fps/50fps
IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps
IP Streaming -> Audio Compression Format	AAC-LC, 48 kHz / 16 bit / 2ch
IP Streaming -> Supported Protocol -> IPv6	TCP / IP、UDP / IP、HTTP、HTTPS、DNS、NTP、 SNMP、DHCPv6、RTP、MLD、ICMP、ARP、RTMP
IP Streaming -> Supported Protocol -> IPv4	TCP / IP、UDP / IP、HTTP、HTTPS、RTSP、 RTP、RTP / RTCP、DHCP、DNS、DDNS、NTP、SNMP、 UPnP、IGMP、ICMP、ARP、RTMP、RTMPS、SRT
NDI® Support -> NDI® Support	NDI® HX2,NDI® High Bandwidth
NDI® Support -> Output Format (NDI® High bandwidth) -> 4K	2160/59.94p、2160/50p、2160/29.97p、2160/25p、2160/24p、2160/23.98p
NDI® Support -> Output Format (NDI® High bandwidth) -> HD	1080/59.94p、1080/50p、1080/29.97p、1080/25p、1080/24p、1080/23.98p、720/59.94p、720/50p
NDI® Support -> Image Resolution (NDI® HX2)	1920x1080 , 1280x720
NDI® Support -> Image Streaming Setting (NDI® High bandwidth) -> Transmission Type	TCP/UDP Unicast/Multicast
NDI® Support -> Image Streaming Setting (NDI® High bandwidth) -> Max Bit Rate	Max 250 Mbps
NDI® Support -> Image Streaming Setting (NDI® HX2) -> Transmission Type	Unicast port (AUTO) Unicast port (MANUAL) Multicast port
NDI® Support -> Image Streaming Setting (NDI® HX2) -> Flame rate	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD:30fps / 60fps) [50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD:25fps / 50fps)
NDI® Support -> Image Streaming Setting (NDI® HX2) -> Max Bit Rate	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps /4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps
NDI® Support -> Audio Compression Type (NDI® High bandwidth)	AAC, 48 kHz, 2 ch
NDI® Support -> Audio Compression Type (NDI® HX2)	AAC-LC, 48 kHz,16 bit, 2 ch
Other Function -> Tally LED Display Color	red / green / yellow
Footnote Description	1. Future support planned 2. This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p. 3. When selecting formats for UHD SDI, HDMI, and Fiber, it is not possible to select different formats for each of them. Furthermore, the formats for FHD SDI and 3G SDI OUT2 are fixed to the formatting method selected for UHD SDI and HDMI. 4. Use of an STP (shielded twisted pair) cable is recommended. 5. Category 6 or more is used when sending 4K images. * NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.