



"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



AW-UE150A

<https://eu.connect.panasonic.com/dk/en/broadcast-proav/remote-ptz-camera-systems/aw-ue150a>

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

Camera Unit ->	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Electronic Shutter	
Speed ->	29.97p
Camera Unit ->	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Electronic Shutter	
Speed ->	25p
Camera Unit ->	1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Electronic Shutter	
Speed ->	23.98p/24p
Camera Unit ->	60.00 Hz to 7200 Hz
Synchro Scan ->	59.94p/59.94i
Camera Unit ->	50.00 Hz to 7200 Hz
Synchro Scan ->	50p/50i
Camera Unit ->	30.00 Hz to 7200 Hz
Synchro Scan ->	29.97p
Camera Unit ->	25.00 Hz to 7200 Hz
Synchro Scan ->	25p
Camera Unit ->	24.00 Hz to 7200 Hz
Synchro Scan ->	23.98p/24p
Camera Unit ->	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3/ FILM REC / VIDEO REC
Gamma	
Camera Unit ->	ATW: 3200K, 5600K
White Balance	<ul style="list-style-type: none"> • ATW Speed 3-stage variables AWB: AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)
Camera Unit ->	OFF, -99 % to 99 %
Chroma Amount	
Variability	
Camera Unit ->	Scene1, Scene2, Scene3, Scene4
Scene File	
Camera Unit ->	2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)
Output	
Format(UHD/FHD	
SDI) ->	4K *3
Camera Unit ->	1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i,
Output	1080/50i, 720/59.94p, 720/50p
Format(UHD/FHD	
SDI) ->	HD *3
Camera Unit ->	2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native)
Output	
Format(UHD/FHD	
Fiber) ->	4K *3
Camera Unit ->	1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i,
Output	1080/50i, 720/59.94p, 720/50p
Format(UHD/FHD	
Fiber) ->	HD *3
Synchronization	Internal/External synchronization (BBS/Tri-level sync)
System	
Input Connector	• BBS (Black Burst Sync), tri-level sync supported
>	G/L IN
Input Connector	-MIC/LINE input compatible (SDI/HDMI/IP)
>	MIC/LINE Input AAC compatible (compatible with IP only)
	<ul style="list-style-type: none"> • 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	HDMI 2.0 connector
Connector ->	4:2:2/10bit
HDMI	<ul style="list-style-type: none"> • HDCP is not supported. • Viera Link is not supported.
Output	SMPTE 2082-1/SMPTE 2081-1/SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)
Connector ->	• Level-A/Level-B supported
12G-SDI OUT	
Output	SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)
Connector ->	3G- • Level-A/Level-B supported
SDI OUT1	
Output	SMPTE 424M /SMPTE 292M / 75 Ω(BNC×1)
Connector ->	3G- • Level-A/Level-B supported
SDI OUT2/PM	

Output	SFP+ standard
Connector -> SFP+	The signal sent is the same as 12G SDI OUT. <ul style="list-style-type: none"> 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	When there is a PoE++ Ethernet hub
-> IP connecting cable *5	LAN cable ^{*4} (category 5e or above, straight cable), max. 100 m (328 ft) <ul style="list-style-type: none"> 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	LAN cable ^{*4} (category 5e or above, straight cable), max. 1000 m (3280 ft)
-> AW protocol connecting cable	Use category 6 or better for 4K video transmissions.
Pan-tilt Head Unit	Stand-alone (Desktop) or suspended (Hanging)
-> Installation Method	To ensure safety, the unit must be secured using the mount bracket supplied.
Pan-tilt Head Unit	Speed range: 0.08°/s to 180°/s (During manual operation)
-> Pan/tilt Operation Speed	3 speed modes installed Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s <ul style="list-style-type: none"> 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	±175°
-> Panning Range	
Pan-tilt Head Unit	-30° to 210°
-> Tilting range	Depending on the pan or tilt position, the camera may be reflected in the image.
Pan-tilt Head Unit	NC35 or less (Up to 60°/s in Normal mode)
-> Quietness	
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 ->	[60Hz] 30fps/60fps
Image	[50Hz] 25fps/50fps
Transmission	
Setting (H.265) ->	
Frame Rate	
IP Streaming ->	512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps
Image	
Transmission	
Setting (H.265) ->	
Max Bit Rate	
IP Streaming ->	AAC-LC, 48 kHz / 16 bit / 2ch
Audio	
Compression	
Format	
IP Streaming ->	TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP,
Supported	SNMP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP
Protocol -> IPv6	
IP Streaming ->	TCP / IP, UDP / IP, HTTP, HTTPS, RTSP,
Supported	RTP, RTP / RTCP, DHCP, DNS, DDNS, NTP, SNMP,
Protocol -> IPv4	UPnP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT
NDI® Support ->	NDI® HX2, NDI® High Bandwidth
NDI® Support	
NDI® Support ->	2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p
Output Format	
(NDI® High	
bandwidth) -> 4K	
NDI® Support ->	1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Output Format	
(NDI® High	
bandwidth) -> HD	
NDI® Support ->	1920x1080, 1280x720
Image Resolution	
(NDI® HX2)	
NDI® Support ->	TCP/UDP
Image Streaming	Unicast/Multicast
Setting (NDI®	
High bandwidth)	
-> Transmission	
Type	
NDI® Support ->	Max 250 Mbps
Image Streaming	
Setting (NDI®	
High bandwidth)	
-> Max Bit Rate	
NDI® Support ->	Unicast port (AUTO)
Image Streaming	Unicast port (MANUAL)
Setting (NDI®	Multicast port
HX2) ->	
Transmission	
Type	
NDI® Support ->	[60Hz] 5fps / 15fps / 30fps / 60fps (UHD:30fps / 60fps)
Image Streaming	[50Hz] 5fps / 12.5fps / 25fps / 50fps (UHD:25fps / 50fps)
Setting (NDI®	
HX2) -> Flame	
rate	
NDI® Support ->	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps /
Image Streaming	14336kbps / 16384kbps / 20480kbps / 24576kbps
Setting (NDI®	
HX2) -> Max Bit	
Rate	
NDI® Support ->	AAC, 48 kHz, 2 ch
Audio	
Compression	
Type (NDI® High	
bandwidth)	
NDI® Support ->	AAC-LC, 48 kHz, 16 bit, 2 ch
Audio	
Compression	
Type (NDI® HX2)	
Other Function ->	red / green / yellow
Tally LED Display	
Color	
Footnote	1. Future support planned
Description	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.