



4K 25/30p PTZ Camera with 24x Optical Zoom and supporting NDI®*1 HX version 2 and SRT

AW-UE50

PTZ cameras enhance visual communication in a variety of applications ranging from online classes to online seminars. The AW-UE50/UE40 supports a compact design to blend in with the surroundings and operates very quietly to permit flexible use in any video shooting locations or conditions. The AW-UE50/UE40 offers high security and it is easy to install and operate for capturing stable images, so even people unfamiliar with video shooting or camera operation can utilize it. The excellent flexibility of the product simplifies wiring and operation. Linkage with online conference software or online application is possible, so online video streaming is easy to initiate. The AW-UE50/UE40 is a standard model perfect for people who want to utilize online video streaming more frequently or

Key Features

4K 25/30p and 24x Optical Zoom

New Direct Drive System for improved responsiveness and quietness

Supports NDI®*1 HX version 2 and SRT*2 protocol

Excellent system flexibility to achieve smart wiring and smooth operation





AW-UE50

<https://oc.connect.panasonic.com/au/en/aw-ue50>

General

Power Requirements	12 V DC (10.8 V to 13.2 V) (Supplied AC adapter)
PoE+	IEEE802.3at compliant : DC42 to 57 V (Camera Input)(Software authentication (LLDP) is supported)
Current Consumption	1.8 A (Supplied AC adaptor), 0.6 A (PoE+ power supply)
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. 1.8 kg (3.97 lbs) (excluding ceiling mounting bracket)Approx. 2.05 kg (4.51 lbs) (including ceiling mounting bracket)
Dimensions (W x H x D) (mm)	160.0 mm x 192.1 mm x 166.0 mm (Excluding protrusions, cable cover, ceiling mounting bracket)
Dimensions (W x H x D) (inch)	6.299 inches x 7.563 inches x 6.535 inches (Excluding protrusions, cable cover, ceiling mounting bracket)
Finish	AW-UE50W: WhiteAW-UE50K: Black
Controller Supported	AW-RP150GJ, AW-RP60GJ, AW-RM50AG, AK-HRP1000*2,3, AK-HRP1005*2,3, AK-HRP1015*3, AK-HRP250*3

Camera Unit

Imaging Sensors	1/2.5-type 4K MOS x1
Lens	Motorized Optical 24x zoom, F1.8 to F4.0 [f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches); 35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)]
Zoom	<ul style="list-style-type: none"> Optical zoom: 24x i.Zoom UHD 28x, FHD 36x Digital extender zoom: 1.4 x , 2 x

Conversion Lens

Angle of View Range	Horizontal angle of view: 74.1° (wide) to 3.3° (tele) Vertical angle of view: 46.0° (wide) to 1.9° (tele) Diagonal angle of view: 81.8° (wide) to 3.8° (tele)
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Optical Filter

Focus	Switching between auto and manual
Focus Distance	Entire zooming range: 1200 mm (3.9 ft)Wide end: 100 mm (0.33 ft)
Color Separation Optical System	1 MOS
Minimum Illumination	3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)
S/N	
Horizontal Resolution	UHD: 1,500 Typ (Center area)FHD: 1,000 Typ (Center area)
Gain Selection	Auto, 0 dB to 36 dB*3 (Super Gain function equipped : 37 dB to 42 dB)
Frame Mix	Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB*4
Electronic Shutter Speed	
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
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
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
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
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

Synchro Scan

Synchro Scan 59.94p/59.94i	60.0 Hz to 7200 Hz
Synchro Scan 29.97p	30.0 Hz to 7200 Hz
Synchro Scan 23.98p/24p	24.0 Hz to 7200 Hz
Synchro Scan 50p/50i	50.0 Hz to 7200 Hz
Synchro Scan 25p	25.0 Hz to 7200 Hz
Gamma	HD / Normal / Cinema1 / Cinema2 / Still Like
White Balance	• ATW : 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB : AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)
Chroma Amount Variability	OFF, -99 % to 99 %

Scene File

Output Format

Synchronization System

Input	
Input Connector	DC 12 V IN
Output	
Output Format SDI HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p
Output Format HDMI 4K	2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)
Output Format HDMI HD	1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p
Video Output	
Video Output HDMI	HDMI 1.4 connector; 4:2:2/10bit <ul style="list-style-type: none"> • HDCP is not supported. • Viera Link is not supported.
Video Output 3G-SDI OUT	SMPTE292M, 424M/ 75 Ω (BNCx1) <ul style="list-style-type: none"> • Level-A/Level-B supported
Input/Output	
Input/Output Connector	
Input/Output Connector LAN	LAN terminal for IP control (RJ-45)
Input/Output Connector RS-422	CONTROL IN RS422A (RJ-45)
MIC/Line Input	AAC compatibility (compatible with IP only) Φ3.5 mm stereo mini jack <ul style="list-style-type: none"> • During MIC input Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz) Supply voltage: 2.5 V±0.5 V (plug-in power compatible) "* Input impedance: Approx. 2 kΩ (when plug-in power is turned ON) Approx. 20 kΩ (when plug-in power is turned OFF)" • During LINE input Input level: -10 dBV Input impedance: Approx. 3 kΩ <ul style="list-style-type: none"> • Input volume variable range: -36 dB to 12 dB (3 dB step) • Embedded audio output level: -12 dBFS • Sampling frequency: 48 kHz
Pan Tilt Head Unit	
IP Connecting Cable	<ul style="list-style-type: none"> • If you have a PoE+ ethernet hub LAN cable*6 (category 5e or above, straight cable) Max 100 m (328 ft) • If you don't have a PoE+ ethernet hub LAN cable*6 (category 5e or above, straight cable) Max 100 m (328 ft)
AW Protocol Connecting Cable	• LAN cable*6 (category 5e or above, straight cable) Max 1000 m (3280 ft)
Camera/Pan-Tilt Head Control	
Installation Method	Stand-alone (Desktop) or suspended (Hanging)*7
Pan/Tilt Operation Speed	Speed range: 0.08°/s to 60°/s (Normal mode)*8 <ul style="list-style-type: none"> • 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s
Panning Range	±175°
Tilting Range	-30°to 90°*9
Quietness	NC25 or less
Supported operating systems and web browsers	*10
Windows	Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome
Mac	Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome
iPhone / iPad	iOS Safari iPadOS
Android	Android OS Google Chrome
IP Streaming	
Image Streaming Mode	JPEG (MJPEG), H.264, H.265, NDI®*1 HX version 2*11,12,13,14 (H.264)
Image Resolution	1920x1080, 1280x720, 640x360, 320x180

Image Transmission setting (JPEG)	Frame rate: Maximum 30fps Image quality (Fine / Normal)
Image Transmission Setting (H.264)	Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Transmission Priority: Constant bit rate, Frame rate, Best effort Frame Rate: [60 Hz] 5fps / 15fps / 30fps / 60fps, [50 Hz] 5fps / 12.5fps / 25fps / 50fps Max Bit Rate: 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps
Image Transmission Setting (H.265)	Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Transmission Priority: Constant bit rate, Frame rate, Best effort Frame Rate: [60 Hz] 30fps / 60fps, [50 Hz] 25fps / 50fps Max Bit Rate: 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps
Audio Compression Type	AAC-LC, 48 kHz / 16 bit / 2ch
Supported Protocol	
Supported protocol IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT
Supported protocol IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT
New Functions	
F-Number Display	Displayed on the AW-RP150GJ and AW-RP60GJ sides
Menu Display on IP Video	Supported*15
Power LED	ON/OFF control
Tripod Screw Penetration Measures	Possible
Pan/Tilt Mechanical Method	New Direct Drive System
Image Stabilization	OIS 2-axis MENU switching: Select between Off/O.I.S.
Privacy Mode	The lens surface faces backward when standing by (ON/OFF) * Default is OFF
Other Functions	
Tally LED display color	red / green NDI®*1 HX version 2: Upgradable 1920x1080, 1280x720 Transmission Type: Streaming method: TCP/UDP, Unicast/Multicast AAC-LC, 48 kHz, 16 bit, 2 ch
Note	*1: NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries. *2: Discontinued Model *3: Will be supported in the future *4: Can be set in 1 dB step increments. *5: Cannot be set 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. *6: STP (Shielded Twisted Pair) is recommended. *7: To ensure safety, the unit must be secured using the mount bracket supplied. *8: Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode. *9: The main unit may appear in the video depending on the pan/tilt position. *10: Supported OS indicated are for browsers current as of September 2021. See "Service and Support / PASS" for the latest information on browser support. *11: NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow. *12: NDI® is a registered trademark of NewTek, Inc. in the United States. *13: In this instance, NDI® is used to indicate low latency with high bandwidth NDI®, NDI® HX is used to indicate high efficiency low bandwidth NDI® HX. In the NDI® HX mode, 4K video signals cannot be output. AW-UE50/AW-UE40 supports NDI® HX version 2 and Full HD output. *14: For details, please contact a sales representative of Panasonic. To use NDI® HX, the driver must be installed and activated. *15: Non-synchronous with SDI-OUT