Panasonic CONNECT



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

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
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4K PROFESSIONAL
HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE
SRT SECURE RELIABLE TRANSPORT
zoom Certified
NABSHOW PRODUCT of the YEAR 2022 WINNER

Panasonic CONNECT






AW-UE50

https://ap.connect.panasonic.com/my/en/aw-ue50

General -> Power Requirements	12 V DC (10.8 V to 13.2 V) (Supplied AC adapter)
General -> PoE	PoE+ IEEE802.3at compliant : DC42 to 57 V (Software authentication (LLDP) is supported)
General -> Current Consumption	1.8 A (Supplied AC adaptor), 0.6 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. 1.8 kg (3.97 lbs) (excluding ceiling mounting bracket) Approx. 2.05 kg (4.52 lbs) (including ceiling mounting bracket)
General -> Dimensions	W 160.0 mm x H 192.1 mm x D 166.0 mm (6.299 inches x 7.563 inches x 6.535 inches) (Excluding protrusions, cable cover, ceiling mounting bracket)
General -> Finish	AW-UE50W: White AW-UE50K: Black
General -> Controller Supported *2 *3	See the "Compatibility Chart for Operation Devices and Application Software" page
Camera Unit -> Imaging Sensor	1/2.3-type MOSx1
Camera Unit -> Effective Pixels	Approx. 8,490,000 pixels
Camera Unit -> Zoom	• Optical zoom: 24x • i.Zoom UHD 28x, FHD 36x • Digital extender zoom: 1.4x , 2x
Camera Unit -> 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)]
Camera Unit -> Conversion Lens	Not supported
Camera Unit -> 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)
Camera Unit -> Optical Filter -> ND Filter	Not equipped
Camera Unit -> Focus	Switching between auto and manual
Camera Unit -> Focus Distance	Entire zooming range: 1200 mm (3.9 ft) Wide end: 100 mm (0.33 ft)
Camera Unit -> Color Separation Optical System	1MOS
Camera Unit -> Minimum Illumination	3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)
Camera Unit -> Horizontal Resolution -> 4K	1,500 Typ (Center area)
Camera Unit -> Horizontal Resolution -> HD	1,000 Typ (Center area)
Camera Unit -> Gain Selection	Auto, 0 dB to 36 dB *1 (Super Gain function equipped : 37 dB to 42 dB)
Camera Unit -> Frame Mix	Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB *2
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	60.0 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 50p/50i	50.0 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 29.97p	30.0 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 25p	25.0 Hz to 7200 Hz
Camera Unit -> Synchro Scan -> 23.98p/24p	24.0 Hz to 7200 Hz
Camera Unit -> Gamma	HD / Normal / Cinema1 / Cinema2 / Still Like
Camera Unit -> 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)
Camera Unit -> Chroma Amount Variability	OFF, -99 % to 99 %

Camera Unit -> Scene File	Full Auto, Scene1, Scene2, Scene3
Camera Unit -> 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
Camera Unit -> Output Format (HDMI) -> 4K	2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)
Camera Unit -> 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
Image Stabilization	MENU switching: Select between Off/O.I.S.
Input Connector -> DC IN	DC 12 V IN
Output Connector -> HDMI	HDMI 1.4 connector 4:2:2/10bit • HDCP is not supported. • Viera Link is not supported.
Output Connector -> 3G-SDI OUT	SMPTE292M, 424M/ 75 Ω (BNCx1) • Level-A/Level-B supported
Input/Output Connector -> LAN	LAN terminal for IP control (RJ-45) 100BASE-TX/1000BASE-T
Input/Output Connector -> RS-422	CONTROL IN RS422A (RJ-45)
Input/Output Connector -> USB	USB2.0 DEVICE, Type C connector, no USB bus-powered function. Only compatible with UVC (USB Video Class) * UVC 1.0, UAC 1.0
Input/Output Connector -> MIC/LINE Input	AAC compatibility (compatible with IP only) Φ3.5 mm stereo mini jack • 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 • 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	• If you have a PoE+ ethernet hub LAN cable *3 (category 5e or above, straight cable) Max 100 m (328 ft) • If you don't have a PoE+ ethernet hub LAN cable *3 (category 5e or above, straight cable) Max 100 m (328 ft)
Pan-tilt Head Unit -> AW protocol connecting cable	•LAN cable *3 (category 5e or above, straight cable) Max 1000 m (3280 ft)
Pan-tilt Head Unit -> Installation Method	Stand-alone (Desktop) or suspended (Hanging) *4
Pan-tilt Head Unit -> Speed range	Speed range: 0.08°/s to 60°/s (Normal mode) *5
Pan-tilt Head Unit -> Pan/tilt Operation Speed	• 3 speed modes installed Normal: 60°/s, Fast1: 90°/s, Fast2: 180°/s
Pan-tilt Head Unit -> Panning Range	±175°
Pan-tilt Head Unit -> Tilting range	-30°to 90° *6
Pan-tilt Head Unit -> Quietness	NC25 or less
Supported Operating Systems and Web Browsers -> Windows	Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome
Supported Operating Systems and Web Browsers -> 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
Supported Operating Systems and Web Browsers -> iPhone/iPad	iOS Safari iPadOS
Supported Operating Systems and Web Browsers -> Android *9	Android OS Google Chrome
IP Streaming -> Image Streaming Mode	JPEG (MJPEG), H.264, H.265, NDI® HX *8(H.264)
IP Streaming -> Image Resolution	1920x1080, 1280x720, 640x360, 320x180
IP Streaming -> Image Transmission Setting (JPEG)	Frame rate: Maximum 30fps 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	[60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 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
IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type	Unicastport (AUTO) Unicastport (MANUAL) Multicastport
IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate	[60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 25fps / 50fps
IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps /3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps /12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps

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, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT
IP Streaming -> Supported Protocol -> IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT
NDI® Support -> NDI® Support	NDI® HX : Available to upgrade
NDI® Support -> Image Resolution (NDI® HX)	1920x1080, 1280x720
NDI® Support -> Image Streaming Setting (NDI® HX) -> Transmission Type	TCP/UDP Unicast/Multicast
NDI® Support -> Audio Compression Type (NDI® HX)	AAC-LC, 48 kHz, 16 bit, 2 ch
Other Function -> Tally LED Display Color	red / green
Footnote Description	* NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries. 1. Can be set in 1 dB step increments. 2. 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. 3. STP (Shielded Twisted Pair) is recommended. 4. To ensure safety, the unit must be secured using the mount bracket supplied. 5. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode. 6. The main unit may appear in the video depending on the pan/tilt position. 7. Supported OS indicated are for browsers current as of September 2021. See “Service and Support / PASS” for the latest information on browser support. 8. For details, please contact a sales representative of Panasonic. To use NDI® HX, the driver must be installed and activated. 9. Non-synchronous with SDI-OUT