Panasonic CONNECT



First 4K 60p/50p*1 PTZ Camera supporting NDI®*2 and SRT*3 in the world*4

AW-UE100

Supports high bandwidth NDI® for low latency transmission of high-quality 4K 60p/50p*1 video, and SRT*3 for high-quality and stable transmission, and also compatible with 12G-SDI output for use in a wide range of situations, from live streaming of events to studio production.

Key Features

- Supports a wide variety of IP transmission protocols, including NDI®*2, NDI®|HX*5, and SRT*3
- Supports 4K 60p/50p*1 shooting and 12G-SDI output
- Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom
- Supports FreeD*1 for building AR/VR*2 systems
- Adopts new mechanical pan/tilt for improved responsiveness and quietness

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https://ap.connect.panasonic.com/my/en/aw-ue100

General -> Power Requirements	12 V DC (10.8 V to 13.2 V) (Supplied AC adaptor), 42 V to 57 V DC (PoE++ power supply)
General -> PoE	PoE++ IEEE802.3bt standard: DC 42 V to 57 V (Software authentication (LLDP) is supported)
General -> Current Consumption	3.0 A (Supplied AC adaptor), 1.0 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. 2.2 kg (4.84 lb) (excluding cable cover, mount bracket) Approx. 2.3 kg (5.06 lb) (including cable cover, excluding mount bracket)
General -> Dimensions	W 169.2 mm x H 204.6 mm x D 170.6 mm (6-21/32 inches x 8-1/16 inches x 6-23/32 inches) (excluding protrusions, cable cover, mount bracket)
General -> Finish	AW-UE100WP/AW-UE100WPC/AW-UE100WE/AW-UE100WED: Pearl white AW-UE100KP/AW-UE100KPC/AW-UE100KE/AW-UE100KED: Black
General -> Controller Supported	See the "Compatibility Chart for Operation Devices and Application Software" page
Camera Unit -> Imaging Sensor	1/2.5-type 4K MOS x 1
Camera Unit -> Effective Pixels	Approx. 8,490,000 pixels
Camera Unit -> Zoom	• Optical zoom: 24x • i.Zoom: UHD 28x, FHD 36x • Digital 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	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: 1200 mm (3.9 ft) Wide end: 100 mm (0.33 ft)
Camera Unit -> Color Separation Optical System	1MOS
Camera Unit -> Standard Sensitivity	F4, 2000 lx (When normal mode is selected) F5.6, 2000 lx (When High Sens mode is selected)
Camera Unit -> Minimum Illumination	3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)
Camera Unit	60dB(typ) (When [Shooting Mode] is [Normal])
Camera Unit -> Horizontal Resolution -> 4K	1500 TV lines 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
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
Camera Unit -> White Balance	ATW : 3200K, 5600K 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 (SDI) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p *3, 2160/25p *3, 2160/24p *3, 2160/23.98p *3
Camera Unit -> Output Format (SDI) -> HD	1080/59.94p, 1080/50p, 1080/29.97p *3, 1080/29.97PsF, 1080/25p *3, 1080/25PsF, 1080/23.98p *4, 1080/24p *3, 1080/23.98p *3, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Camera Unit -> Output Format (HDMI) -> 4K	2160/59.94p, 2160/50p, 2160/29.97p *3, 2160/25p *3, 2160/24p *3, 2160/23.98p *3
Camera Unit -> Output Format (HDMI) -> HD	1080/59.94p, 1080/50p, 1080/29.97p *3, 1080/25p *3, 1080/23.98p, 1080/24p *3, 1080/23.98p *3 *10, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input Connector -> DC IN	DC 12 V IN
Input Connector -> G/L IN	BBS (Black Burst Sync), tri-level sync supported 75 Ω terminal (BNCx1)
Input Connector -> AUDIO INPUT -> Stereo Mini Jack	Compatible (SDI/HDMI/IP) AAC compatible (compatible with IP only) ø 3.5 mm stereo mini jack Input impedance: Approx. 10 kΩ (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 • During LINE input Input level: –10 dBV • 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, SMPTE424M/SMPTE292M / 75 Ω (BNC x 1) • Level-A/Level-B supported
Output Connector -> 3G-SDI OUT	SMPTE424M/SMPTE292M / 75 Ω (BNC x 1) • Level-A/Level-B supported
Input/Output Connector -> LAN	LAN terminal for IP control and video transmission (RJ-45) 100BASE-TX/1000BASE-T PoE++ power terminal (IEEE802.3bt compliant)
Input/Output Connector -> RS-422	CONTROL IN RS-422A (RJ-45)
Pan-tilt Head Unit -> IP connecting cable	LAN cable *5:(category 5e or above, straight cable), max. 100 m (328 ft)
Pan-tilt Head Unit -> AW protocol connecting cable	LAN cable *5:(category 5e or above, straight cable), max. 1000 m (3280 ft)
Pan-tilt Head Unit -> Installation Method *4	Stand-alone (Desktop) or suspended (Hanging) *6
Pan-tilt Head Unit -> Pan/tilt Operation Speed	Speed range: 0.08°/s to 60°/s (Normal mode) • 3 speed modes installed Normal: 60°/s, Fast1: 90°/s *7, Fast2: 180°/s *7
Pan-tilt Head Unit -> Panning Range	±175°
Pan-tilt Head Unit -> Tilting range	–30° to 210° *8
Pan-tilt Head Unit -> Quietness	NC25 or less
Supported Operating Systems and Web Browsers -> Windows *6	Microsoft® Windows® 10 Microsoft Edge Google Chrome
Supported Operating Systems and Web Browsers -> Mac *6	MacOS 10.13/Safari 13, MacOS 10.14/Safari 13 MacOS 10.15/Safari 13, MacOS 10.15/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, High Bandwidth NDI®
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 [50Hz] 25fps

IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate	8192kbps / 12288kbps / 25600kbps / 51200kbps / 76800kbps
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, SNMP, MPEG2-TS over UDP
IP Streaming -> Supported Protocol -> IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT, SNMP, MPEG2-TS over UDP
NDI® Support -> NDI® Support	NDI®|HX version 2 : Included as standard High Bandwidth NDI®: Included as standard
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. 1 dB steps. 2. This cannot be configured 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. Native output. 4. OVER 59.94i output (your monitor may recognize the signal as 59.94i). 5. Use of an STP (shielded twisted pair) cable is recommended. 6. To ensure safety, the unit must be secured using the mount bracket supplied. 7. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode. 8. Depending on the pan or tilt position, the camera may be reflected in the image. 9. Supported OS indicated are for browsers current as of August 2020. See “Service and Support / PASS” for the latest information on browser support. 10. It denotes “1080/23.98p over 59.94p”