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/th/en/aw-ue50

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| **General -> Power Requirements** | 12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) |
| **General -> PoE** | PoE+<br>IEEE802.3at compliant : DC42 to 57 V<br>(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)<br>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<br>(6.299 inches x 7.563 inches x 6.535 inches)<br>(Excluding protrusions, cable cover, ceiling mounting bracket) |
| **General -> Finish** | AW-UE50W: White<br>AW-UE50K: Black |
| **General -> Controller Supported** | 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<br>• i.Zoom UHD 28x, FHD 36x<br>• Digital extender zoom: 1.4x , 2x |
| **Camera Unit -> Lens** | Motorized Optical 24x zoom, F1.8 to F4.0<br>[f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches);<br>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)<br>Vertical angle of view: 46.0° (wide) to 1.9° (tele)<br>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)<br>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.)<br>• AWB : AWB-A / AWB-B<br>• VAR (selectable between 2000 K and 15000 K by designating a value) |
| **Camera Unit -> Chroma Amount Variability** | OFF, -99 % to 99 % |

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| **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<br>4:2:2/10bit<br>• HDCP is not supported.<br>• Viera Link is not supported. |
| **Output Connector -> 3G-SDI OUT** | SMPTE292M, 424M/ 75 Ω (BNCx1)<br>• 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.<br>Only compatible with UVC (USB Video Class)<br>* UVC 1.0, UAC 1.0 |
| **Input/Output Connector -> MIC/LINE Input** | AAC compatibility (compatible with IP only)<br>Φ3.5 mm stereo mini jack<br>• During MIC input<br>Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz)<br>Supply voltage: 2.5 V±0.5 V (plug-in power compatible)<br>• Input impedance: Approx. 2 kΩ (when plug-in power is turned ON)<br>Approx. 20 kΩ (when plug-in power is turned OFF)<br>• During LINE input<br>Input level: -10 dBV<br>Input impedance: Approx. 3 kΩ<br>• Input volume variable range: -36 dB to 12 dB (3 dB step)<br>• Embedded audio output level: -12 dBFS<br>• Sampling frequency: 48 kHz |
| **Pan-tilt Head Unit -> IP connecting cable** | • If you have a PoE+ ethernet hub<br>LAN cable *3 (category 5e or above, straight cable) Max 100 m (328 ft)<br>• If you don't have a PoE+ ethernet hub<br>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** *4 | 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<br>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** *6 | Windows 10<br>Windows® Internet Explorer® 11 (32 bit / 64 bit)<br>Microsoft Edge<br>Google Chrome |
| **Supported Operating Systems and Web Browsers -> Mac** *6 | Mac OS v11.0.1 / Safari 14.01<br>Mac OS v11.0.1 / Google Chrome<br>Mac OS v10.15 / Google Chrome<br>Mac OS v10.14 / Google Chrome |
| **Supported Operating Systems and Web Browsers -> iPhone/iPad** | iOS<br>Safari<br>iPadOS |
| **Supported Operating Systems and Web Browsers -> Android** *9 | Android OS<br>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<br>Image quality (Fine / Normal) |
| **IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type** | Unicast port (AUTO)<br>Unicast port (MANUAL)<br>Multicast port |
| **IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode** | Constant bit rate<br>Frame rate<br>Best effort |
| **IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate** | [60 Hz] 5fps / 15fps / 30fps / 60fps<br>[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 )<br>Unicastport ( MANUAL )<br>Multicastport |
| **IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate** | [60 Hz] 5fps / 15fps / 30fps / 60fps<br>[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 |

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| **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<br>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.<br>1. Can be set in 1 dB step increments.<br>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.<br>3. STP (Shielded Twisted Pair) is recommended.<br>4. To ensure safety, the unit must be secured using the mount bracket supplied.<br>5. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode.<br>6. The main unit may appear in the video depending on the pan/tilt position.<br>7. Supported OS indicated are for browsers current as of September 2021. See “Service and Support / PASS” for the latest information on browser support.<br>8. For details, please contact a sales representative of Panasonic. To use NDI® HX, the driver must be installed and activated.<br>9. Non-synchronous with SDI-OUT |