Panasonic CONNECT




### 4K PTZ Camera with simultaneous 3G-SDI, HDMI & USB output

# AW-UE20

PTZ cameras play an increasingly important role in teleworking such as online meetings and online classes.The AW-UE20 offers high image quality, wide shooting angle and high-magnification zoom to provide more comfortable communication through high-quality video images and stable transmission.The AW-UE20 is compatible with a wide range of systems such as SDI, HDMI, USB and IP, thus allowing flexible camera setup and operation. The AW-UE20 is a high-quality entry model. The compact unit can be installed in a small place without getting in the way.

**Key Features**

- 4K PTZ Camera
- Simultaneous 3G-SDI, HDMI & USB output
- Compact size & wide angle
- High-Quality Video Streaming for More Comfortable Online Communication
- Excellent system flexiblility to achieve smart wiring and smooth operation

4K PROFESSIONAL

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Panasonic CONNECT

# AW-UE20

https://latam.connect.panasonic.com/br/en/products/broadcast-proav/aw-ue20

| | |
|---|---|
| **General -> Power Requirements** | 12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) |
| **General -> PoE** | PoE+<br>IEEE802.3at compliant: DC42.5 to 57 V |
| **General -> Current Consumption** | 1.3 A (Supplied AC adapter), 0.4 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. 1.9 kg (4.19lbs) (excluding ceiling mounting bracket) |
| **General -> Dimensions** | W 165.1 mm x H 176.2 mm x D 176.1mm<br>(6.5 inches x 6.94 inches x 6.93 inches)<br>(Excluding protrusions, cable cover, mounting bracket) |
| **General -> Finish** | AW-UE20W: White<br>AW-UE20K: Black |
| **General -> Controller Supported** | See the "Compatibility Chart for Operation Devices and Application Software" page |
| **Camera Unit -> Imaging Sensor** | 1/2.8-type 4K MOS x 1 |
| **Camera Unit -> Effective Pixels** | Approx. 8,460,000 pixels |
| **Camera Unit -> Zoom** | • Optical zoom: 12x<br>• i.Zoom UHD 1.33x, FHD 1.33x<br>• Digital extender zoom: 1.4x , 2x<br>• Max Digital Zoom: 2x, 3x, 4x |
| **Camera Unit -> Lens** | Motorized Optical 12x zoom, F1.6 to F2.8<br>[f=3.9 mm to 46.8 mm;<br>35 mm equivalent: 26.4 mm to 316.4 mm] |
| **Camera Unit -> Conversion Lens** | Not supported |
| **Camera Unit -> Angle of View Range** | Horizontal angle of view: 71.0° (wide) to 6.0° (tele)<br>Vertical angle of view: 43.0° (wide) to 3.0° (tele)<br>Diagonal angle of view: 79.0° (wide) to 7.0° (tele) |
| **Camera Unit -> Minimum Illumination** | 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) |
| **Camera Unit -> Horizontal Resolution -> 4K** | 1,400 Typ (Center area) |
| **Camera Unit -> Horizontal Resolution -> HD** | 1,000 Typ (Center area) |
| **Camera Unit -> Gain Selection** | Auto, 0dB to 42dB *1 |
| **Camera Unit -> Frame Mix** | Auto, 0dB, 6dB, 12dB, 18dB, 24dB |
| **Camera Unit -> Electronic Shutter Speed -> Manual** | 1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]<br>1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ] |
| **Camera Unit -> Synchro Scan -> 59.94p/59.94i** | 60.0Hz to 660.0Hz |
| **Camera Unit -> Synchro Scan -> 50p/50i** | 50.0Hz to 570.1Hz |
| **Camera Unit -> Synchro Scan -> 29.97p** | 60.0Hz to 660.0Hz |
| **Camera Unit -> Synchro Scan -> 25p** | 50.0Hz to 570.1Hz |
| **Camera Unit -> White Balance** | ATW, AWB A, AWB B, 3200K, 5600K |
| **Camera Unit -> Chroma Amount Variability** | 11 steps (0 to 10) |
| **Camera Unit -> Output Format (SDI) -> HD** | [60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p<br>[59.94Hz]1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p<br>[50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p |
| **Camera Unit -> Output Format (HDMI) -> 4K** | [60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p<br>[59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p<br>[50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p |
| **Input Connector -> DC IN** | DC 12 V IN |
| **Output Connector -> HDMI** | HDMI Connector<br>4:4:4/8 bit<br>• HDCP is not supported.<br>• Viera Link is not supported. |
| **Output Connector -> 3G-SDI OUT** | 75Ω BNC<br>• Level-A supported *2 |
| **Input/Output Connector -> LAN** | LAN terminal for IP control (RJ-45) 100BASE-TX/1000BASE-T |
| **Input/Output Connector -> RS-232C** | Mini DIN 8-pin (IN)/Mini DIN 8-pin (OUT) |
| **Input/Output Connector -> RS-422** | CONTROL IN RS422A (RJ-45) |
| **Input/Output Connector -> USB** | Type-C connector |
| **Input/Output Connector -> MIC/LINE Input** | MIC/LINE input compatible (SDI/HDMI/IP/USB)<br>AAC compatible (compatible with IP only)<br>ø 3.5 mm stereo mini jack Imbalance<br>• During MIC input<br>Input level: –40 dBV ( 0 dB=1 V/Pa、1 kHz )<br>Compatible Plug-in power, Supply voltage: 2.5 V ± 0.5 V<br>• During LINE input<br>Input level: Approx. –10 dBV<br>• Variable input volume range: –36 dB to +12 dB (3 dB step)<br>• Embedded audio output level: –12 dBFS<br>• Sampling frequency: 48 kHz<br>• Number of quantization bits: 16 bits |

| | |
|---|---|
| **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] |
| **Pan-tilt Head Unit -> AW protocol connecting cable** | • LAN cable(category 5e or above, straight cable) Max 1000 m (3280 ft) |
| **Pan-tilt Head Unit -> Standard Protocol Connecting Cable** | Mini Din 8-pin cable (male) |
| **Pan-tilt Head Unit -> Installation Method [*4]** | Stand-alone (Desktop) or suspended (Hanging) |
| **Pan-tilt Head Unit -> Pan/tilt Operation Speed** | Speed range:<br>Manual: 0.1°/s to 100°/s<br>Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) |
| **Pan-tilt Head Unit -> Panning Range** | ±170° |
| **Pan-tilt Head Unit -> Tilting range** | -30° to 90° [*5] |
| **Pan-tilt Head Unit -> Quietness** | NC40 or less (60 deg/sec or less)<br>NC55 or less (100 eg/sec 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 v10.15<br>Mac OS v10.14<br>Mac OS v10.13<br>Mac OS v10.12<br>Safari<br>Google Chrome |
| **IP Streaming -> Image Streaming Mode** | MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) |
| **IP Streaming -> Image Resolution** | [MJPEG]<br>1280×720、640×360<br>[H.264/H.265]<br>3840×2160、1920×1080、1280×720、640×360 |
| **IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate [*7]** | Max 30fps (25fps) |
| **IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate [*7]** | Unspecified [*7] |
| **IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate** | [60Hz/59.94Hz]<br>4K: 5fps/15fps/30fps<br>FHD: 5fps/15fps/30fps/60fps<br>[50Hz]<br>4K: 5fps/10fps/25fps<br>FHD: 5fps/10fps/25fps/50fps |
| **IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate** | RTSP/RTMP:1024kbps to 32768kbps<br>RTMPS:1024kbps to 8192kbps |
| **IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate** | [60Hz/59.94Hz]<br>4K: 5fps/15fps/30fps<br>FHD: 5fps/15fps/30fps/60fps<br>[50Hz]<br>4K: 5fps/10fps/25fps<br>FHD: 5fps/10fps/25fps/50fps |
| **IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate** | 1024kbps to 32768kbps |
| **IP Streaming -> Audio Compression Format** | AAC-LC, 48kHz/16bit/2ch |
| **IP Streaming -> Supported Protocol -> IPv6** | TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP |
| **IP Streaming -> Supported Protocol -> IPv4** | TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP |
| **USB web camera -> Image output** | USB Video Class Ver1.1 |
| **USB web camera -> Image output type** | YUV (Uncompressed), MJPEG, H.264 |
| **USB web camera -> Image resolution -> YUV** | 640x360 |
| **USB web camera -> Image resolution -> MJPEG** | 3840x2160, 1920x1080, 1280x720, 640x360 |
| **USB web camera -> Image resolution -> H.264** | 3840x2160, 1920x1080, 1280x720, 640x360 |
| **USB web camera -> Image Transmission Setting (frame rate) -> YUV** | [60Hz/59.94Hz]:15fps<br>[50Hz]:10fps |
| **USB web camera -> Image Transmission Setting (frame rate) -> MJPEG** | [60Hz/59.94Hz]<br>4K: 5fps<br>FHD: 5fps, 15fps, 30fps<br>[50Hz]<br>4K: 5fps<br>FHD: 5fps 10fps, 25fps |
| **USB web camera -> Image Transmission Setting (frame rate) -> H.264** | [60Hz/59.94Hz]<br>4K: 5fps, 15fps, 30fps<br>FHD: 5fps, 15fps, 30fps, 60fps<br>[50Hz]<br>4K: 5fps, 10fps, 25fps<br>FHD: 5fps, 10fps, 25fps, 50fps |
| **USB web camera -> Audio Output** | USB Audio Class Ver1.0 |
| **USB web camera -> Audio Compression Format** | Linear PCM, 48KHz/16bit/2ch |

| | |
|---|---|
| **Footnote Description** | 1. Can be set in 3 dB step increments.<br>2. Embedded audio is not supported.<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. The main unit may appear in the video depending on the pan/tilt position.<br>6. Supported OS indicated are for browsers current as of September 2021.<br>SeeService and Support / PASS" for the latest information on browser support.<br>7. JPEG and H.264, H.265 simultaneous operation is possible. |