Panasonic CONNECT



Full-HD PTZ Camera with simultaneous 3G-SDI, HDMI & USB output

AW-HE20

PTZ cameras play an increasingly important role in teleworking such as online meetings and online classes. The AW-HE20 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-HE20 is compatible with a wide range of systems such as SDI, HDMI, USB and IP, thus allowing flexible camera setup and operation. The AW-HE20 is a high-quality entry model. The compact unit can be installed in a small place without getting in the way.

Key Features

Compact size & wide angle

Simultaneous 3G-SDI, HDMI & USB output

High-Quality Video Streaming for More Comfortable Online Communication

Excellent system flexiblility to achieve smart wiring and smooth operation







AW-HE20

https://ap.connect.panasonic.com/id /en/aw-he20







| General -> Power Requirements | 12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) |
|--|---|
| ieneral -> PoE | PoE+ IEEE802.3at compliant: DC42.5 to 57 V |
| General -> Current Consumption | 1.3 A (Supplied AC adaptor), 0.4 A (PoE+ power supply) |
| ieneral -> Ambient Operating | 0 °C to 40 °C (32°F to 104°F) |
| emperature | |
| General -> Ambient Operating | 20 📀 to 90 🚱 (no condensation) |
| lumidity | |
| 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 176.1 mm |
| | (6.5 inches x 6.94 inches x 6.93 inches) |
| | (Excluding protrusions, cable cover, mounting bracket) |
| Seneral -> Finish | AW-HE20W: white |
| | AW-HE20K: black |
| General -> Controller Supported | See the "Compatibility Chart for Operation Devices and Application Software" page |
| Camera Unit -> Imaging Sensor | 1/2.8-type MOSx1 |
| Camera Unit -> Effective Pixels | Approx. 8,460,000 pixels |
| Camera Unit -> Zoom | Optical zoom: 12x |
| | • i.Zoom UHD 1.33x, FHD 1.33x |
| | • Digital extender zoom: 1.4x , 2x |
| | • Max Digital Zoom: 2x, 3x, 4x |
| Camera Unit -> Lens | Motorized Optical 12x zoom, F1.6 to F2.8 |
| | [f=3.9 mm to 46.8 mm; 35 mm equivalent: 26.4 mm to 316.4 mm] |
| Camera Unit -> Conversion Lens | 35 mm equivalent: 26.4 mm to 316.4 mm] Not supported |
| | |
| Camera Unit -> Angle of View Range | Vertical angle of view: 43.0° (wide) to 3.0° (tele) |
| | Diagonal angle of view: 79.0° (wide) to 7.0° (tele) |
| Camera Unit -> Minimum Illuminatio | n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) |
| Camera Unit -> Horizontal Resolution | · · · · · · · · · · · · · · · · · · · |
| > HD | ·/····/// |
| Camera Unit -> Gain Selection | Auto, 0dB to 42dB ^{*1} |
| Camera Unit -> Frame Mix | Auto, 0dB, 6dB, 12dB, 18dB, 24dB |
| Camera Unit -> Electronic Shutter | 1/1、1/2、1/3、1/7、1/15、1/30、1/60、1/120、1/240、1/480、1/1000、1/2000、 |
| Speed -> Manual | 1/4000、1/8000、1/16000 [60Hz/59.94Hz] |
| | 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 -> | 60.0Hz ~ 660.0Hz |
| 59.94p/59.94i | |
| Camera Unit -> Synchro Scan -> | 50.0Hz ~ 570.1Hz |
| 50p/50i | |
| Camera Unit -> Synchro Scan -> 29.97p | 60.0Hz ~ 660.0Hz |
| Camera Unit -> Synchro Scan -> 25p | 50.0Hz ~ 570.1Hz |
| Camera Unit -> White Balance | ATW, AWB A, AWB B, 3200K, 5600K |
| Camera Unit -> Chroma Amount | 11 steps (0 to 10) |
| /ariability | |
| • | >[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p |
| HD | [59.94Hz]1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p |
| | [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p |
| Camera Unit -> Output Format (HDM | I) [60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p |
| > 4K | [59.94Hz]1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p |
| | [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p |
| nput Connector -> DC IN | DC 12 V IN |
| Output Connector -> HDMI | HDMI Connector |
| | 4:4:4/8 bit |
| | HDCP is not supported. |
| | Viera Link is not supported. |
| Output Connector -> 3G-SDI OUT | 75Ω BNC |
| | • 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 | |
|---|---|
| | MIC/LINE input compatible (SDI/HDMI/IP/USB) |
| | AAC compatible (compatible with IP only) |
| | ø 3.5 mm stereo mini jack Imbalance • During MIC input |
| | Input level: -40 dBV (0 dB=1 V/Pa、1 kHz) |
| | Compatible Plug-in power, Supply voltage: $2.5 V \pm 0.5 V$ |
| | During LINE input |
| | Input level: Approx. –10 dBV • Variable input volume range: –36 dB to +12 dB (3 dB step) |
| | Embedded audio output level: -12 dBFS |
| | • Sampling frequency: 48 kHz |
| | Number of quantization bits: 16 bits |
| 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 |
| Pan-tilt Head Unit -> AW protocol | • LAN cable ^{*3} (category 5e or above, straight cable) Max 1000 m (3280 ft) |
| connecting cable | |
| Pan-tilt Head Unit -> Standard Protocol Connecting Cable | Mini Din 8-pin cable (male) |
| Pan-tilt Head Unit -> Installation | Stand-alone (Desktop) or suspended (Hanging) ^{*4} |
| Method ^{*4} | |
| Pan-tilt Head Unit -> Pan/tilt Operatioı Speed | |
| speed | Manual: 0.1°/s to 100°/s 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) |
| | NC55 or less (100 eg/sec or less) |
| Supported Operating Systems and Web Browsers -> Windows ^{*6} | Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) |
| | Microsoft Edge |
| | Google Chrome |
| Supported Operating Systems and | Mac OS v10.15 |
| Web Browsers -> Mac *6 | Mac OS v10.14 |
| | Mac OS v10.13 Mac OS v10.12 |
| | Safari |
| | Google Chrome |
| IP Streaming -> Image Streaming Mode | MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) |
| IP Streaming -> Image Resolution | [MJPEG] |
| | |
| | 1280×720、640×360 |
| | [H.264/H.265] |
| IP Streaming -> Image Transmission | [H.264/H.265] 1920×1080、1280×720、640×360 |
| Setting (MJPEG) -> Frame Rate ^{*7} | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps |
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| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps |
| Setting (MJPEG) -> Frame Rate ^{*7} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{*7} IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMP5: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/130fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps |
| Setting (MJPEG) -> Frame Rate *7 (P Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 (P Streaming -> Image Transmission Setting (H.264) -> Frame Rate (P Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate (P Streaming -> Image Transmission Setting (H.265) -> Frame Rate (P Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate (P Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate (P Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch |
| Setting (MJPEG) -> Frame Rate *7 (P Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 (P Streaming -> Image Transmission Setting (H.264) -> Frame Rate (P Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate (P Streaming -> Image Transmission Setting (H.265) -> Frame Rate (P Streaming -> Image Transmission Setting (H.265) -> Frame Rate (P Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate (P Streaming -> Audio Compression Format (P Streaming -> Supported Protocol -> | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps |
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| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Audio Compression Format IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, RTMP, RTMPS, NTP |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Audio Compression Format IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image output type | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP、 RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IP V6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output type USB web camera -> Image resolution -> YUV | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/130fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP、RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/130fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP、RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Max Bit Rate IP Streaming -> Max Bit Rate IP Streaming -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output type USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> H.264 USB web camera -> Image Transmission Setting (frame rate) -> | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTMPS: 1024kbps to 3192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Max Bit Rate IP Streaming -> Max Bit Rate IP Streaming -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image output type USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> H.264 USB web camera -> Image Transmission Setting (frame rate) -> YUV | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 8192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> May Bit Rate IP Streaming -> Supported Protocol -> IP Vf IP Streaming -> Supported Protocol -> IP V4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> H.264 USB web camera -> Image Transmission Setting (frame rate) -> YUV USB web camera -> Image Transmission Setting (frame rate) -> | [H.264/H.265] 1920×1080, 1280×720, 640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 312768kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps [60 Hz/59.94 Hz] 30fps/ 15fps/ 5fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> YUV USB web camera -> Image | [H.264/H.265] 1920×1080, 1280×720, 640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMPS: 1024kbps to 3192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNC, ICMP, ARP、 RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps [60 Hz/59.94 Hz] 30fps/ 15fps/ 5fps [50 Hz] 25fps/ 10fps/ 5fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> YUV USB web camera -> Image Transmission Setting (frame rate) -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> MJPEG USB web camera -> Image | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMP5: 1024kbps to 3192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps [60 Hz/59.94 Hz] 30fps/ 15fps/ 5fps [50 Hz] 25fps/ 10fps/ 5fps [60 Hz/59.94 Hz] 30fps/ 15fps, 5fps [50 Hz] 25fps/ 10fps/ 5fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IP Streaming -> Supported Protocol -> IP V6 IP Streaming -> Supported Protocol -> IP V4 USB web camera -> Image output USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image resolution -> H.264 USB web camera -> Image Transmission Setting (frame rate) -> YUV USB web camera -> Image Transmission Setting (frame rate) -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMP5: 1024kbps to 3192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps [60 Hz/59.94 Hz] 30fps/ 15fps/ 5fps [50 Hz] 25fps/ 10fps/ 5fps [60 Hz/59.94 Hz] 30fps/ 15fps, 5fps [50 Hz] 25fps/ 10fps/ 5fps |
| Setting (MJPEG) -> Frame Rate *7 IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate *7 IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Max Bit Rate IP Streaming -> Supported Protocol -> IPv6 IP Streaming -> Supported Protocol -> IPv4 USB web camera -> Image output USB web camera -> Image resolution -> YUV USB web camera -> Image resolution -> MJPEG USB web camera -> Image Transmission Setting (frame rate) -> YUV USB web camera -> Image | [H.264/H.265] 1920×1080、1280×720、640×360 Max 30fps (25fps) Unspecified*7 [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps RTSP/RTMP: 1024kbps to 32768kbps RTMP5: 1024kbps to 3192kbps [60Hz/59.94Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/10fps/25fps/50fps 1024kbps to 32768kbps AAC-LC, 48kHz/16bit/2ch TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTP USB Video Class Ver1.1 YUV (Uncompressed), MJPEG, H.264 640x360 1920x1080, 1280x720, 640x360 [60Hz/59.94Hz]:15fps [50Hz]:10fps [60 Hz/59.94 Hz] 30fps/ 15fps/ 5fps [50 Hz] 25fps/ 10fps/ 5fps [60 Hz/59.94 Hz] 30fps/ 15fps, 5fps [50 Hz] 25fps/ 10fps/ 5fps |

Footnote Description

- 1. Can be set in 3 dB step increments.
- 2. Embedded audio is not supported.
- 3. STP (Shielded Twisted Pair) is recommended.
 4. To ensure safety, the unit must be secured using the mount bracket supplied.
- 5. The main unit may appear in the video depending on the pan/tilt position.
- 6. Supported OS indicated are for browsers current as of September 2021. See "Service and Support / PASS" for the latest information on browser support.
- 7. JPEG and H.264, H.265 simultaneous operation is possible.