WININEL I



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







AW-UE20

https://ap.connect.panasonic.com/vn /vi/aw-ue20







12 V DC (10.8 V to 13.2 V) (Supplied AC adapter)
PoE+
IEEE802.3at compliant: DC42.5 to 57 V
1.3 A (Supplied AC adapter), 0.4 A (PoE+ power supply) 0 °C to 40 °C (32°F to 104°F)
0 C (0 40 C (32 F (0 104 F)
20 % to 90 % (no condensation)
-20 °C to 50 °C (-4 °F to 122 °F)
Approx. 1.9 kg (4.19lbs) (excluding ceiling mounting bracket)
W 165.1 mm x H 176.2 mm x D 176.1mm
(6.5 inches x 6.94 inches x 6.93 inches)
(Excluding protrusions, cable cover, mounting bracket)
AW-UE20W: White
AW-UE20K: Black
See the "Compatibility Chart for Operation Devices and Application Software" page
1/2.8-type 4K MOS x 1
Approx. 8,460,000 pixels
• Optical zoom: 12x
• i.Zoom UHD 1.33x, FHD 1.33x
• Digital extender zoom: 1.4x , 2x
• Max Digital Zoom: 2x, 3x, 4x
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]
Not supported
Horizontal angle of view: 71.0° (wide) to 6.0° (tele)
Vertical angle of view: 43.0° (wide) to 3.0° (tele)
-
Diagonal angle of view: 79.0° (wide) to 7.0° (tele)
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6)
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n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) n -1,400 Typ (Center area) n -1,000 Typ (Center area)
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) n-1,400 Typ (Center area) n-1,000 Typ (Center area) Auto, 0dB to 42dB ^{*1}
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) n -1,400 Typ (Center area) n -1,000 Typ (Center area)
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n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1.400 Typ (Center area) 1.000 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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,
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1-1,400 Typ (Center area) 1-1,000 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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]
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1.400 Typ (Center area) 4.1,000 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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] 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,
n 0.4 kx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1.400 Typ (Center area) 4.1,000 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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] 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]
n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1.400 Typ (Center area) 4.1,000 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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] 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,
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n 0.4 kx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1-1,400 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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] 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] 60.0Hz to 660.0Hz 50.0Hz to 570.1Hz 50.0Hz to 570.1Hz
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n 0.4 kx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6) 1-1,400 Typ (Center area) Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB 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] 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] 60.0Hz to 660.0Hz 50.0Hz to 570.1Hz 60.0Hz to 660.0Hz 50.0Hz to 570.1Hz ATW, AWB A, AWB B, 3200K, 5600K 11 steps (0 to 10) ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p [59.94Hz]1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p
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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 Input/Output Connector -> RS-232C	LAN terminal for IP control (RJ-45) 100BASE-TX/1000BASE-T 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)
	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 ± 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
Pan-tilt Head Unit -> IP connecting	Number of quantization bits: 16 bits If you have a PoE+ ethernet hub
cable	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(category 5e or above, straight cable) Max 1000 m (3280 ft)
connecting cable Pan-tilt Head Unit -> Standard	Mini Din 8-nin cable (male)
connecting cable Pan-tilt Head Unit -> Standard Protocol Connecting Cable	Mini Din 8-pin cable (male)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation	Stand-alone (Desktop) or suspended (Hanging) n Speed range:
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation	Stand-alone (Desktop) or suspended (Hanging)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170°
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11}	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 0 Windows 0 Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11}	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows @ Internet Explorer @ 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1% to 100% Preset: 0.1% to 200% (Tilt: to 140%) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows @ Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 0 Windows 0 Windows @ Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows 10 Windows 10 Windows 10 Windows 10 Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari
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Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11}	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows 0 Windows 0 Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)
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Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11}	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 10 Windows 10 Windows 10 Windows 0 Hicrosoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) [MJPEG] 1280×720、 640×360 [H.264/H.265]
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows@ Internet Explorer@ 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome Mac OS v10.12 Safari Google Chrome IL280×720、 640×360 [HJ264/H.265] 3840×2160、1920×1080、1280×720、640×360
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1°/s to 100°/s Preset: 0.1°/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows@ Internet Explorer@ 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome Mac OS v10.12 Safari Google Chrome IL280×720、 640×360 [HJ264/H.265] 3840×2160、1920×1080、1280×720、640×360
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution Setting (MJPEG) -> Frame Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1% to 100% Preset: 0.1% to 200% (Tilt: to 140%) ±170° -30° to 90°*5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows 0 Windows Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) [MJPEG] 1280×720, 640×360 [H.264/H.265] 3840×2160, 1920×1080, 1280×720, 640×360 Max 30fps (25fps)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{ *2}	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1% to 100% Preset: 0.1% to 200% (Tilt: to 140%) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) [MJPEG] 1280×720, 640×360 [H.264/H.265] 3840×2160, 1920×1080, 1280×720, 640×360 Max 30fps (25fps)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{ *2}	Stand-alone (Desktop) or suspended (Hanging) nSpeed range: Manual: 0.1% to 100% Preset: 0.1% to 200% (Tilt: to 140%) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) [MJPEG] 1280×720, 640×360 [H.264/H.265] 3840×2160, 1920×1080, 1280×720, 640×360 Max 30fps (25fps)
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Pan-tilt Head Unit -> Standard Protocol Connecting Cable Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows ^{ *11} Supported Operating Systems and Web Browsers -> Mac ^{ *11} IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate ^{ *2} IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate ^{ *2} IP Streaming -> Image Transmission	Stand-alone (Desktop) or suspended (Hanging) mSpeed range: Manual: 0.1 °/s to 100°/s Preset: 0.1 °/s to 200°/s (Tilt: to 140°/s) ±170° -30° to 90° *5 NC40 or less (60 deg/sec or less) NC55 or less (100 eg/sec or less) Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP) [MJPEG] 1280 × 720, 640 × 360 [H.264/H.265] 3840 × 2160, 1920 × 1080, 1280 × 720, 640 × 360 Max 30 fps (25 fps) Unspecified *7 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps

IP Streaming -> Image Transmission	RTSP/RTMP:1024kbps to 32768kbps
Setting (H.264) -> Max Bit Rate	RTMPS:1024kbps to 8192kbps
IP Streaming -> Image Transmission	[60Hz/59.94Hz]
Setting (H.265) -> Frame Rate	4K: 5fps/15fps/30fps
	FHD: 5fps/15fps/30fps/60fps
	[50Hz]
	4K: 5fps/10fps/25fps
	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
	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	[60Hz/59.94Hz]:15fps
Transmission Setting (frame rate) -> YUV	[50Hz]:10fps
USB web camera -> Image	[60Hz/59.94Hz]
Transmission Setting (frame rate) -> MIPEG	4K: 5fps
	FHD: 5fps, 15fps, 30fps
	[50Hz]
	4K: 5fps
	FHD: 5fps 10fps, 25fps
USB web camera -> Image	[60Hz/59.94Hz]
Transmission Setting (frame rate) -> H.264	4K: 5fps, 15fps, 30fps
	FHD: 5fps, 15fps, 30fps, 60fps
	[50Hz]
	4K: 5fps, 10fps, 25fps
	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	
	Can be set in 3 dB step increments.

Embedded audio is not supported.

STP (Shielded Twisted Pair) is recommended.

To ensure safety, the unit must be secured using the mount bracket supplied.

The main unit may appear in the video depending on the pan/tilt position.

Supported OS indicated are for browsers current as of September 2021. SeeService and Support / PASS" for the latest information on browser support.

JPEG and H.264, H.265 simultaneous operation is possible.