



## 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



# Panasonic CONNECT



### AW-UE20

https://ap.connect.panasonic.com/m y/en/aw-ue20







General -> Power Requirements	12 V DC (10 8 V to 12 2 V) (Cumplied AC adt)
General -> PoE	12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) PoE+
uenerar-> rut	
Cananal > Commant Communit	IEEE802.3at compliant: DC42.5 to 57 V
General -> Current Consumption General -> Ambient Operating	1.3 A (Supplied AC adapter), 0.4 A (PoE+ power supply) 0 °C to 40 °C (32°F to 104°F)
Temperature	0 Ct0 40 C(32 Ft0 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
	(6.5 inches x 6.94 inches x 6.93 inches)
	(Excluding protrusions, cable cover, mounting bracket)
General -> Finish	AW-UE20W: White
	AW-UE20K: Black
General -> Controller Supported <sup *1</sup 	>> 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
	• 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	Not supported
Camera Unit -> Angle of View Range	Horizontal angle of view: 71.0° (wide) to 6.0° (tele)
	Vertical angle of view: 43.0° (wide) to 3.0° (tele)
Company I limite > Milinium com Tille umain a tila	Diagonal angle of view: 79.0° (wide) to 7.0° (tele)
Camera Unit -> Horizontal Resolution	n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6)
	7 31 (
> 4K Camera Unit -> Horizontal Resolutior	
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup></sup>	··
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup></sup>	
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Frame Sup> *3	Auto, 0dB to 42dB *1
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Frame Sup> *3	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,
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter  Speed -> Manual  Camera Unit -> Synchro Scan ->	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 ]
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan ->	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 ]
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan ->	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
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59,94p/59,94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29,97p	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 660.0Hz
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59,94p/59,94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29,97p Camera Unit -> Synchro Scan ->	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
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59,94p/59,94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29,97p Camera Unit -> Synchro Scan -> 29,97p Camera Unit -> Synchro Scan -> 29,97p Camera Unit -> Synchro Scan -> 25 p Camera Unit -> Synchro Scan ->	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 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> ½</sup> Camera Unit -> Frame Mix <sup> ⅓</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 25 p Camera Unit -> Synchro Scan -> 26 p Camera Unit -> Synchro Scan -> 27 p Camera Unit -> Synchro Scan -> 28 p Camera Unit -> Synchro Scan -> 29 p Camera Unit -> Synchro Scan -> 25 p Camera Unit -> Chroma Amount	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
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> ½</sup> Camera Unit -> Frame Mix <sup> ½3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> White Balance Camera Unit -> White Balance Camera Unit -> Chroma Amount Variability	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 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> White Balance Camera Unit -> White Balance Camera Unit -> Chroma Amount Variability Camera Unit -> Output Format (SDI)	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
> 4K Camera Unit -> Horizontal Resolutior > HD Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> White Balance Camera Unit -> White Balance Camera Unit -> Chroma Amount Variability	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  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
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i  Camera Unit -> Synchro Scan -> 50p/50i  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Chroma Amount Variability  Camera Unit -> Output Format (SDI) - HD	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  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, 1080/59i, 1080/25p, 720/50p
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59,94p/59,94i  Camera Unit -> Synchro Scan -> 50p/50i  Camera Unit -> Synchro Scan -> 29,97p  Camera Unit -> Synchro Scan -> 29,97p  Camera Unit -> Chroma Amount  Variability  Camera Unit -> Output Format (SDI) - HD  Camera Unit -> Output Format (HDM	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  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  >>[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [160Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i  Camera Unit -> Synchro Scan -> 50p/50i  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Chroma Amount Variability  Camera Unit -> Output Format (SDI) - HD	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  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, 1080/59i, 1080/25p, 720/50p
> 4K  Camera Unit -> Horizontal Resolutior > HD  Camera Unit -> Gain Selection <sup> *2</sup> Camera Unit -> Frame Mix <sup> *3</sup> Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59,94p/59,94i  Camera Unit -> Synchro Scan -> 50p/50i  Camera Unit -> Synchro Scan -> 29,97p  Camera Unit -> Synchro Scan -> 29,97p  Camera Unit -> Chroma Amount  Variability  Camera Unit -> Output Format (SDI) - HD  Camera Unit -> Output Format (HDM	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  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  >>[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [160Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p

Output Connector -> HDMI	HDMI Connector
output connector + 115m1	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	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 Protocol Connecting Cable	Mini Din 8-pin cable (male)
-	Stand-alone (Desktop) or suspended (Hanging)
Pan-tilt Head Unit -> Installation Method	
Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation	nSpeed range:
Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation	nSpeed range: Manual: 0.1°/s to 100°/s
Pan-tilt Head Unit -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operatio Speed	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting	nSpeed range:  Manual: 0.1°/s to 100°/s  Preset: 0.1°/s to 200°/s (Tilt: to 140°/s)
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 <sup> *5</sup>	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup>	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup> Pan-tilt Head Unit -> Quietness	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup> Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows <sup></sup>	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup> Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows <sup></sup>	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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup> Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows <sup></sup>	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)
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and	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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Macsup>	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® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Macsup>	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® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Macsup>	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® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge Google Chrome  Mac OS v10.15  Mac OS v10.14
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Macsup>	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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Macsup>	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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup>	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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup>	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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup>	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)
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup>	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)
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup>	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
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 <sup>*5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> *11  Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *12</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *12</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *12 Mac<sup> *12 Mac<sup> *13</sup></sup></sup>	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)  [M]PEG] 1280×720、640×360 [H.264/H.265] 3840×2160、1920×1080、1280×720、640×360
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 <sup>*5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> Supported Operating Systems and Supported Operating System	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)  [M]PEG] 1280×720、640×360 [H.264/H.265] 3840×2160、1920×1080、1280×720、640×360
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> Setting (MJPEG) -&gt; Max Bit Rate<sup> Setting (MJPEG) -&gt; Max Bit Rate<sup></sup></sup></sup></sup></sup></sup></sup></sup>	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 v10.12  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 -> Installation Method Pan-tilt Head Unit -> Pan/tilt Operation Speed  Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup>	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 v10.12 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)  Unspecified *7
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission	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 v10.14 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
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission	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 v10.12 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)  Unspecified *7  [60Hz/59,94Hz] 4K: 5fps/15fps/30fps
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission	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 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz] 4K: 5fps/15fps/30fps/60fps
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 <sup *5<="" sup=""> Pan-tilt Head Unit -&gt; Quietness  Supported Operating Systems and Web Browsers -&gt; Windows<sup> *11</sup>  Supported Operating Systems and Web Browsers -&gt; Mac<sup> *11</sup>  IP Streaming -&gt; Image Streaming Mode IP Streaming -&gt; Image Resolution  IP Streaming -&gt; Image Resolution  IP Streaming -&gt; Image Transmission Setting (MJPEG) -&gt; Frame Rate<sup> *2</sup> IP Streaming -&gt; Image Transmission Setting (MJPEG) -&gt; Max Bit Rate<sup> *2</sup> IP Streaming -&gt; Image Transmission Setting (MJPEG) -&gt; Max Bit Rate<sup> *2</sup> IP Streaming -&gt; Image Transmission</sup>	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 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz] 4K: 5fps/15fps/30fps/60fps [50Hz]
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate	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 v10.15 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)  Unspecified *7  [60Hz/59.94Hz] 4K: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps
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 <sup> *5</sup> Pan-tilt Head Unit -> Quietness  Supported Operating Systems and Web Browsers -> Windows <sup> *11</sup> Supported Operating Systems and Web Browsers -> Mac <sup> *11</sup> IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution  IP Streaming -> Image Resolution  IP Streaming -> Image Transmission Setting (MJPEG) -> Frame Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission Setting (MJPEG) -> Max Bit Rate <sup> *2</sup> IP Streaming -> Image Transmission	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 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz] 4K: 5fps/15fps/30fps/60fps [50Hz]

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
1	FHD: 5fps/15fps/30fps/60fps
	[50Hz]
	- 4K: 5fps/10fps/25fps
IP Streaming -> Image Transmission	FHD: 5fps/10fps/25fps/50fps 1024kbps to 32768kbps
Setting (H.265) -> Max Bit Rate	
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, NTF
	USB Video Class Ver1.1
	YUV (Uncompressed), MJPEG, H.264
USB web camera -> Image resolution ( -> YUV	640x360
	3840x2160, 1920x1080, 1280x720, 640x360
•	3840x2160, 1920x1080, 1280x720, 640x360
USB web camera -> Image	[60Hz/59.94Hz]:15fps
Transmission Setting (frame rate) ->	[50Hz]:10fps
USB web camera -> Image	[60Hz/59.94Hz]
Transmission Setting (frame rate) ->	4K: 5fps
MJPEG	•
'	FHD: 5fps, 15fps, 30fps
1	[50Hz]
•	4K: 5fps
	FHD: 5fps 10fps, 25fps
	[60Hz/59.94Hz]
Transmission Setting (frame rate) ->	4K: 5fps, 15fps, 30fps
	FHD: 5fps, 15fps, 30fps, 60fps
1	[50Hz]
	4K: 5fps, 10fps, 25fps
	FHD: 5fps, 10fps, 25fps, 50fps
	USB Audio Class Ver1.0
	Linear PCM, 48KHz/16bit/2ch
Compression Format	
Footnote Description	
•	Can be set in 3 dB step increments.
1	Embedded audio is not supported.
!	STP (Shielded Twisted Pair) is recommended.
	To ensure safety, the unit must be secured using the mount bracket supplied.
-	to ensure surety, the unit must be secured using the mount bracket supplied.
-	The main unit may appear in the video depending on the pan/tilt position.
- !	