# Panasonic CONNECT



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

### **AW-UE20**

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

#### **Key Features**

4K PTZ Camera

Simultaneous 3G-SDI, HDMI & USB output

Compact size & wide angle

High-Quality Video Streaming for More Comfortable Online Communication

Excellent system flexiblility to achieve smart wiring and smooth operation







#### AW-UE20

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

Conoral > Dower Parvironant-	12 V DC (10.9 V to 12.2 V) (Cumplied AC adaptor)
General -> Power Requirements General -> PoE	12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) PoE+
deliei di -> FUE	IEEE802.3at compliant: DC42.5 to 57 V
General -> Current Consumption	1.3 A (Supplied AC adapter), 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 176.1mm
	(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	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
Camera Unit -> Lens	Max Digital Zoom: 2x, 3x, 4x  Motorized Optical 12x zoom, F1.6 to F2.8
Lamera Unit -/ Lens	[f=3.9 mm to 46.8 mm;
	35 mm equivalent: 26.4 mm to 316.4 mm]
Camera Unit -> Conversion Lens	Not supported
	Horizontal angle of view: 71.0° (wide) to 6.0° (tele)
Lamera Onic -> 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)
amora Unit > Minimum Illumin	n 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6)
.awera unii -> ivinimum iliuminafior	. or in (5 or it2) can 12 ab; shatter speed 175 of 1115 1 110;
	-1 400 Tyn (Center area)
Camera Unit -> Horizontal Resolution	-1,400 Typ (Center area)
Camera Unit -> Horizontal Resolution > 4K	
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution	
Camera Unit -> Horizontal Resolution • 4K Camera Unit -> Horizontal Resolution • HD	-1,000 Typ (Center area)
Camera Unit -> Horizontal Resolution • 4K Camera Unit -> Horizontal Resolution • HD Camera Unit -> Gain Selection	-1,000 Typ (Center area)  Auto, 0dB to 42dB *1
Camera Unit -> Horizontal Resolution • 4K Camera Unit -> Horizontal Resolution • HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix	-1,000 Typ (Center area)  Auto, 0dB to 42dB *1  Auto, 0dB, 6dB, 12dB, 18dB, 24dB
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	-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,
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	-1,000 Typ (Center area)  Auto, 0dB to 42dB *1  Auto, 0dB, 6dB, 12dB, 18dB, 24dB
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	-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 ]
Camera Unit -> Horizontal Resolution  4 K  Camera Unit -> Horizontal Resolution  HD  Camera Unit -> Gain Selection  Camera Unit -> Frame Mix  Camera Unit -> Electronic Shutter  Speed -> Manual	-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,
Camera Unit -> Horizontal Resolution  4 K Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan ->	-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 ]
Camera Unit -> Horizontal Resolution  4 K Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i	-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 ]
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan ->	-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 ]  60.0Hz to 660.0Hz
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i	-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 ]  60.0Hz to 660.0Hz
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan ->	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan -> 29.97p	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  50.0Hz to 570.1Hz
Camera Unit -> Horizontal Resolution > 4K Camera Unit -> Horizontal Resolution > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan ->	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 25 p Camera Unit -> Synchro Scan ->	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  50.0Hz to 570.1Hz
	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 20.9750 Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 25.9 Camera Unit -> White Balance Camera Unit -> Chroma Amount Variability	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> S9.94p/59.94i Camera Unit -> Synchro Scan -> S0p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> Camera Unit -> Camera Unit -> Ontput Format (SDI) -> Camera Unit -> Output Format (SDI) -> Camera Unit -> Output Format (SDI) -> Camera Unit -> Output Format (SDI) ->	-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 ]  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
Camera Unit -> Horizontal Resolution  4 K  Camera Unit -> Horizontal Resolution  > HD  Camera Unit -> Gain Selection  Camera Unit -> Frame Mix  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 -> White Balance  Camera Unit -> Chroma Amount  Variability  Camera Unit -> Output Format (SDI) ->  HD	-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 ]  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, 1080/50i, 1080/25p, 720/50p
Camera Unit -> Horizontal Resolution  4 K Camera Unit -> Horizontal Resolution  4 HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix 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  //ariability Camera Unit -> Output Format (SDI) -> ID Camera Unit -> Output Format (HDMI)	-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 ]  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  [60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p
Camera Unit -> Horizontal Resolution  4 K Camera Unit -> Horizontal Resolution  4 HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix 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  //ariability Camera Unit -> Output Format (SDI) -> ID Camera Unit -> Output Format (HDMI)	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  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  [60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p
Camera Unit -> Horizontal Resolution 4K Camera Unit -> Horizontal Resolution HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 19.94p/59.94i Camera Unit -> Synchro Scan -> 19.97p Camera Unit -> Synchro Scan -> 19.97p Camera Unit -> Synchro Scan -> 19.97p Camera Unit -> White Balance Camera Unit -> Chroma Amount Cariability Camera Unit -> Output Format (SDI) -> 100 Camera Unit -> Output Format (HDMI)	-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 ]  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]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/29.97p, 1080/59,94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/29.97p, 1080/59,94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p
Camera Unit -> Horizontal Resolution 4K Camera Unit -> Horizontal Resolution HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Chroma Amount Cariability Camera Unit -> Output Format (SDI) -> Camera Unit -> Output Format (HDMI)	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  10 (60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59, 1080/50i, 1080/25p, 720/59  [50Hz]1080/50p, 1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p  [50Hz]1080/50p, 1080/50p, 1080/50i, 1080/30p, 720/60p  [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p  [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p  DC 12 V IN
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.9750i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Camera Unit -> Output Format (HDMI)  > 4K	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.9750i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Camera Unit -> Output Format (HDMI)  > 4K	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  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]2160/30p, 1080/60p, 1080/59.94p, 1080/59,94i, 1080/29.97p, 720/59.94p  [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p  [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p  DC 12 V IN  HDMI Connector  4:4:4/8 bit
Camera Unit -> Horizontal Resolution  4 K Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.9750i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Chroma Amount Cariability Camera Unit -> Output Format (SDI) -> 1D Camera Unit -> Output Format (HDMI)  > 4K	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  160Hz]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, 1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p  [50Hz]2160/29.97p, 1080/50p, 1080/50i, 1080/30p, 720/50p  DC 12 V IN  HDMI Connector  4:4:4/8 bit  + HDCP is not supported.
Camera Unit -> Horizontal Resolution > 4K  Camera Unit -> Horizontal Resolution > HD  Camera Unit -> Gain Selection  Camera Unit -> Frame Mix  Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i  Camera Unit -> Synchro Scan -> 29.97p  Camera Unit -> Synchro Scan -> 229.97p  Camera Unit -> White Balance  Camera Unit -> Chroma Amount  Variability  Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI -> 4K  Input Connector -> DC IN  Output Connector -> HDMI	-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 ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  160Hz]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, 1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]2160/29,97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p  [50Hz]2160/29,97p, 1080/50p, 1080/50i, 1080/30p, 720/60p  [59.94Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p  DC 12 V IN  HDMI Connector  4:4:4/8 bit  HDCP is not supported.  Viera Link is not supported.
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection 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 -> White Balance Camera Unit -> Chroma Amount Variability Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Cinput Connector -> DC IN  Output Connector -> HDMI	-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 ]  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 0(60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p DC 12 V IN  HDMI Connector 4:4:4/8 bit + HDCP is not supported. • Viera Link is not supported.
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50.950i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Camera Unit -> DC IN  Dutput Connector -> DC IN  Dutput Connector -> HDMI	-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 ]  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]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p DC 12 V IN  HDMI Connector 4:4:4/8 bit  +HDCP is not supported. • Viera Link is not supported. • Viera Link is not supported. • Viera Link is not supported.
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.94p/59.96i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 22.97p Camera Unit -> White Balance Camera Unit -> Chroma Amount  //ariability Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Camera Unit -> DU IN Coutput Connector -> DC IN Coutput Connector -> HDMI  Coutput Connector -> 3G-SDI OUT  Camput/Output Connector -> LAN	-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 ]  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, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/50, 1080/50, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/59, 94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p DC 12 V IN  HDMI Connector 4:4:4/8 bit  + HDCP is not supported.  • Viera Link is not supported.  • Viera Link is not supported.  * Viera Link is not supported.  * Level-A supported *2  LAN terminal for IP control (R]-45) 100BASE-TX/1000BASE-T
Camera Unit -> Horizontal Resolution  AK Camera Unit -> Horizontal Resolution  HD Camera Unit -> Gain Selection Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter Speed -> Manual  Camera Unit -> Synchro Scan -> 69.94p/59.94i Camera Unit -> Synchro Scan -> 69.94p/59.96i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 22.97p Camera Unit -> White Balance Camera Unit -> Chroma Amount  //ariability Camera Unit -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI)  > 4K  Camera Unit -> DU IN Coutput Connector -> DC IN Coutput Connector -> HDMI  Coutput Connector -> 3G-SDI OUT  Camput/Output Connector -> LAN	-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 ]  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]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p DC 12 V IN  HDMI Connector 4:4:4/8 bit  +HDCP is not supported. • Viera Link is not supported. • Viera Link is not supported. • Viera Link is not supported.
Camera Unit -> Horizontal Resolution > 4K  Camera Unit -> Horizontal Resolution > HD  Camera Unit -> Gain Selection  Camera Unit -> Frame Mix  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 -> Output Format (SDI) -> HD  Camera Unit -> Output Format (HDMI) >> 4K	-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 ]  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, 1080/60i, 1080/30p, 720/60p [59.94Hz]2160/29.97p, 1080/50, 1080/50, 1080/59.94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/59, 94i, 1080/29.97p, 720/59.94p [50Hz]2160/25p, 1080/50p, 1080/50i, 1080/25p, 720/50p DC 12 V IN  HDMI Connector 4:4:4/8 bit  + HDCP is not supported.  • Viera Link is not supported.  • Viera Link is not supported.  * Viera Link is not supported.  * Level-A supported *2  LAN terminal for IP control (R]-45) 100BASE-TX/1000BASE-T

nput/Output Connector -> MIC/LINI	
	MIC/LINE input compatible (SDI/HDMI/IP/USB)
nput	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
	Number of quantization bits: 16 bits
Pan-tilt Head Unit -> IP connecting	• If you have a PoE+ ethernet hub
able	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 connecting cable	• LAN cable(category 5e or above, straight cable) Max 1000 m (3280 ft)
Pan-tilt Head Unit -> Standard	Mini Din 8-pin cable (male)
Protocol Connecting Cable	Willi Dili o-pili cable (Hale)
Pan-tilt Head Unit -> Installation	Stand-alone (Desktop) or suspended (Hanging)
Nethod *4	gg,
Pan-tilt Head Unit -> Pan/tilt Operati	onSpeed range:
ipeed	Manual: 0.1°/s to 100°/s
	Preset: 0.1°/s to 200°/s (Tilt: to 140°/s)
an-tilt Head Unit -> Panning Range	±170°
an-tilt Head Unit -> Tilting range	-30° to 90° *5
an-tilt Head Unit -> Quietness	NC40 or less (60 deg/sec or less)
	NC55 or less (100 eg/sec or less)
Supported Operating Systems and	Windows 10
Veb Browsers -> Windows *6	Windows® Internet Explorer® 11 (32 bit / 64 bit)
	Microsoft Edge Google Chrome
Supported Operating Systems and	Mac OS v10.15
Neb Browsers -> Mac *6	Mac OS v10.14
WEN DI UWSEIS -/ WICE	Mac OS v10.13
	Mac OS v10.12
	Safari
	Google Chrome
P Streaming -> Image Streaming	MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)
Лode	
P Streaming -> Image Resolution	[MJPEG]
	1280×720、640×360
	[H.264/H.265]
P Streaming -> Image Transmission	3840×2160、1920×1080、1280×720、640×360
etting (MIPEG) -> Frame Rate * <sup>7</sup>	1 Wax 20162 (52162)
P Streaming -> Image Transmission	Unspecified *7
Setting (MJPEG) -> Max Bit Rate *7	·
P Streaming -> Image Transmission	1 [60Hz/59.94Hz]
etting (H.264) -> Frame Rate	4K: 5fps/15fps/30fps
	4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps
	FHD: 5fps/15fps/30fps/60fps [50Hz]
	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps
etting (H.264) -> Frame Rate	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission  etting (H.264) -> Max Bit Rate	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz]
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission  etting (H.264) -> Max Bit Rate	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz]
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz]
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate P Streaming -> Image Transmission	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps
etting (H.264) -> Frame Rate  P Streaming -> Image Transmission  etting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission  etting (H.265) -> Frame Rate	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps
P Streaming -> Image Transmission (H.264) -> P Streaming -> Image Transmission (H.264) -> Max Bit Rate P Streaming -> Image Transmission (H.265) -> Frame Rate  P Streaming -> Image Transmission (H.265) -> Max Bit Rate P Streaming -> Audio Compression	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59,94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps
P Streaming -> Image Transmission (H.264) -> Page Transmission (H.264) -> Max Bit Rate P Streaming -> Image Transmission (H.265) -> Frame Rate  P Streaming -> Image Transmission (H.265) -> Max Bit Rate P Streaming -> Audio Compression format	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps
P Streaming -> Image Transmission (H.264) -> Frame Rate  P Streaming -> Image Transmission (H.264) -> Max Bit Rate P Streaming -> Image Transmission (H.265) -> Frame Rate  P Streaming -> Image Transmission (H.265) -> Max Bit Rate P Streaming -> Audio Compression format P Streaming -> Supported Protocol	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59,94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps
P Streaming -> Image Transmission ietting (H.264) -> Frame Rate  P Streaming -> Image Transmission ietting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission ietting (H.265) -> Frame Rate  P Streaming -> Image Transmission ietting (H.265) -> Max Bit Rate  P Streaming -> Audio Compression format  P Streaming -> Supported Protocol PV6	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 57ps/10fps/25fps FHD: 57ps/10fps/25fps FHD: 57ps/10fps/25fps FTD: 75ps/10fps/25fps TO24kbps to 32768kbps  AAC-LC, 48kHz/16bit/2ch
P Streaming -> Image Transmission letting (H.264) -> Frame Rate  P Streaming -> Image Transmission letting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission letting (H.265) -> Frame Rate  P Streaming -> Image Transmission letting (H.265) -> Max Bit Rate  P Streaming -> Audio Compression lormat  P Streaming -> Supported Protocol  P Streaming -> Supported Protocol	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps
P Streaming -> Image Transmission letting (H.264) -> Frame Rate  P Streaming -> Image Transmission letting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission letting (H.265) -> Frame Rate  P Streaming -> Image Transmission letting (H.265) -> Max Bit Rate  P Streaming -> Audio Compression lormat  P Streaming -> Supported Protocol	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/
P Streaming -> Image Transmission etting (H.264) -> Frame Rate  P Streaming -> Image Transmission etting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission etting (H.265) -> Frame Rate  P Streaming -> Image Transmission etting (H.265) -> Max Bit Rate  P Streaming -> Audio Compression format  P Streaming -> Supported Protocol Pv6  P Streaming -> Supported Protocol Pv4  JSB web camera -> Image output	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/30fps FHD: 5fps/30fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/30fps FHD: 5fps/
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 -> Audio Compression format  P Streaming -> Supported Protocol PV6  P Streaming -> Supported Protocol PV4  JSB web camera -> Image output JSB web camera -> Image output	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps/
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 -> Audio Compression setting (H.265) -> Max Bit Rate P Streaming -> Audio Compression sormat P Streaming -> Supported Protocol PV6 P Streaming -> Supported Protocol PV4 USB web camera -> Image output USB web camera -> Image output USB web camera -> Image output	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps 1 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
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 -> Audio Compression format  P Streaming -> Supported Protocol PV6  P Streaming -> Supported Protocol PV4  JSB web camera -> Image output JSB web camera -> Image output	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps 1 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
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 -> Audio Compression Sormat P Streaming -> Supported Protocol PV6 P Streaming -> Supported Protocol PV4 USB web camera -> Image output USB web camera -> Image output USB web camera -> Image resolutio > YUV	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps  RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps  1 [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps 1 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
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 -> Audio Compression Sormat P Streaming -> Supported Protocol PV6 P Streaming -> Supported Protocol PV4 USB web camera -> Image output USB web camera -> Image output USB web camera -> Image resolutio > YUV	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps TD: 5fps/10fps/25
P Streaming -> Image Transmission in the property of the prope	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps TD: 5fps/10fps/25
P Streaming -> Image Transmission in the property of the prope	FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps RTMPS:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4K: 5fps/15fps/30fps FHD: 5fps/15fps/30fps/60fps [50Hz] 4K: 5fps/10fps/25fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/25fps TD: 5fps
P Streaming -> Image Transmission letting (H.264) -> Frame Rate  P Streaming -> Image Transmission letting (H.264) -> Max Bit Rate  P Streaming -> Image Transmission letting (H.265) -> Frame Rate  P Streaming -> Image Transmission letting (H.265) -> Max Bit Rate  P Streaming -> Max Bit Rate  P Streaming -> Supported Protocol letting (H.265) -> Image output JSB web camera -> Image output JSB web camera -> Image resolutio letting (H.265) -> Max Bit Rate  P Streaming -> Supported Protocol letting (H.265) -> Image output JSB web camera -> Image resolutio letting (H.265) -> YUV  JSB web camera -> Image resolutio letting (H.265) -> Image resolutio letting (H.264) -> Image resolutio letting (H.265) -> Image resolutio letting (H.266) -> Image resolu	FHD: 5fps/15fps/30fps/60fps [50Hz] 4k: 5fps/10fps/25fps FHD: 5fps/10fps/25fps/50fps n RTSP/RTMP:1024kbps to 32768kbps RTMPS:1024kbps to 8192kbps 1 [60Hz/59.94Hz] 4k: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/15fps/30fps FHD: 5fps/10fps/25fps FHD: 5fps/10fps/30fps FHD: 5fps/10fps FHD: 5fps/10f

Footnote Description	1. Can be set in 3 dB step increments.	
Compression Format		
USB web camera -> Audio	Linear PCM, 48KHz/16bit/2ch	
USB web camera -> Audio Output	USB Audio Class Ver1.0	
	FHD: 5fps, 10fps, 25fps, 50fps	
	4K: 5fps, 10fps, 25fps	
	[50Hz]	
H.264	FHD: 5fps, 15fps, 30fps, 60fps	
Transmission Setting (frame rate) ->	4K: 5fps, 15fps, 30fps	
USB web camera -> Image	[60Hz/59.94Hz]	
	FHD: 5fps 10fps, 25fps	
	4K: 5fps	
	[50Hz]	
MJPEG	FHD: 5fps, 15fps, 30fps	
Transmission Setting (frame rate) ->	4K: 5fps	
USB web camera -> Image	[60Hz/59.94Hz]	

- Embedded audio is not supported.
   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.
- 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.