Panasonic CONNECT



4K 50/60p PTZ Camera supporting Full-Bandwidth NDI®*1, SRT and FreeD protocols

AW-UE80

The AW-UE80W/K is a PTZ camera suitable for capturing the natural facial expressions of actors/performers and for recording events without spoiling the ambiance. The dome-shaped design minimizes "the feeling of being recorded on video" while the new direct-drive motor produces a very quiet operating sound so it won't disturb the production activities or spoil the ambiance. The camera offers high-image-quality 4K/60p resolution, wide 74.1° angle, and optical zoom with up to 24x magnification to achieve superb video image quality. The AW-UE80W/K also offers excellent stability and security during video streaming so it can be used for any type of video production. From the production of a reality show to the recording of an internal business or educational event, the top-of-the-line standard model,

Key Features

Supports a wide variety of IP transmission protocols, including NDI®*1 High Bandwidth, NDI®*1 HX, and SRT*2

Supports 4K 50p/60p shooting

Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom

Supports FreeD for building AR/VR systems

New Direct Drive System for improved responsiveness and quietness













AW-UE80

https://latam.connect.panasonic.com /co/es/productos/broadcast-yproav/aw-ue80

General -> Power Requirements	12 V DC (10.8 V to 13.2 V) (Supplied AC adapter)
General -> PoE	PoE++ *1
	IEEE802.3bt compliant: DC42 to 57 V
	(Software authentication (LLDP) is supported)
General -> Current Consumption	3.0 A (Supplied AC adaptor), 1.0 A (PoE++ power supply)
General -> Ambient Operating Gemperature	0 °C to 40 °C (32 °F to 104 °F)
General -> Ambient Operating Humidity	20 % to 90 % (no condensation)
General -> Storage Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
General -> Weight	Approx. 2.0 kg (4.41 lbs) (excluding ceiling mounting bracket), Approx. 2.25 kg (4.96 lbs) (including ceiling mounting bracket)
General -> Dimensions	W 170.0 mm x H 211.0 mm x D 171.0 mm
	(6.693 inches x 8.307 inches x 6.732 inches)
	(Excluding protrusions, cable cover, ceiling mounting bracket)
General -> Finish	AW-UE80W: White AW-UE80K: Black
General -> Controller Supported	See the "Compatibility Chart for Operation Devices and Application Software" page
Camera Unit -> Imaging Sensor	1/2.5-type 4K MOS x 1
Camera Unit -> Effective Pixels	Approx. 8,490,000 pixels
Camera Unit -> Zoom	• Optical zoom: 24x
	• i.Zoom UHD 28x, FHD 36x
	• Digital extender zoom: 1.4x, 2x
Camera Unit -> Lens	Motorized Optical 24x zoom, F1.8 to F4.0
	[f=4.12 mm (5/32 inches) to 98.9 mm (3-29/32 inches);
Camera Unit -> Conversion Lens	35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)]
Camera Unit -> Conversion Lens Camera Unit -> Angle of View Range	Not supported Horizontal angle of view: 74.1° (wide) to 3.3° (tele)
Lamera Onic-> Angle of View Range	Vertical angle of view: 74.1" (wide) to 3.3" (tele)
	Diagonal angle of view: 81.8° (wide) to 3.8° (tele)
Camera Unit -> Optical Filter -> ND	Through, 1/4, 1/16, 1/64, IR through
Filter	(IR through is used as "night mode")
Camera Unit -> Focus	Switching between auto and manual
Camera Unit -> Focus Distance	Entire zooming range: 1200 mm (3.9 ft)
	Wide end: 100 mm (0.33 ft)
Camera Unit -> Color Separation Optical System	1MOS
Camera Unit -> Minimum Illuminatio	n 3 lx (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)
Camera Unit -> Horizontal Resolution > 4K	-1,500 TV Typ (Center area, UHD mode, wide)
Camera Unit -> Horizontal Resolution > HD	1-1,000 TV Typ (Center area, FHD mode, wide)
Camera Unit -> Gain Selection	Auto, 0 dB to 36 dB *2 (Super Gain function equipped : 37 dB to 42 dB)
Camera Unit -> Frame Mix	Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB *3
Camera Unit -> Electronic Shutter Speed -> 59.94p/59.94i	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter	
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter	1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan ->	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan ->	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan ->	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 30.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan ->	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 60p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 23.98p/24p	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 23.98p/24p Camera Unit -> Gamma	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz 4.00 Hz to 7200 Hz HD / Normal / Cinema1 / Cinema2 / Still Like
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 23.98p/24p Camera Unit -> Gamma	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz
Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p 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 -> 23.98p/24p Camera Unit -> Gamma	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 30.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz 4.00 Hz to 7200 Hz HD / Normal / Cinema1 / Cinema2 / Still Like • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)
Speed -> 50p/50i Camera Unit -> Electronic Shutter Speed -> 29.97p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 25p Camera Unit -> Electronic Shutter Speed -> 23.98p/24p Camera Unit -> Synchro Scan -> 59.94p/59.94i Camera Unit -> Synchro Scan -> 50p/50i Camera Unit -> Synchro Scan -> 29.97p Camera Unit -> Synchro Scan -> 23.98p/24p Camera Unit -> Gamma Camera Unit -> White Balance Camera Unit -> Chroma Amount	1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 60.00 Hz to 7200 Hz 50.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz 25.00 Hz to 7200 Hz HD / Normal / Cinema1 / Cinema2 / Still Like • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.) • AWB: AWB-A / AWB-B

HD	23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just),
	23.98p (Native), 720/59.94p, 50p
Camera Unit -> Output Format (HDMI -> 4K	(1)2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Native), 2160/23.98p (Native)
•	()1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native),
> HD	23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input Connector -> DC IN Input Connector -> G/L IN	DC 12 V IN BBS (Black Burst Sync), tri-level sync supported)
Output Connector -> HDMI	HDMI 2.0 connector
output connector + 112m2	4:2:2/10bit
	HDCP is not supported.
	Viera Link is not supported.
Output Connector -> 3G-SDI OUT	SMPTE292M/424M/ 75 Ω(BNC×1) • Level-A/Level-B supported
input/Output Connector -> LAN	LAN terminal for IP control (RJ-45) 100BASE-TX/1000BASE-T
input/Output Connector -> RS-422	CONTROL IN RS422A(RJ-45)
	AC compatibility (compatible with IP only)
Input	Φ3.5 mm stereo mini jack • During MIC input
	Input level: -40 dBV (0 dB=1 V/Pa, 1 kHz)
	Supply voltage: 2.5 V±0.5 V (plug-in power compatible)
	"• Input impedance: Approx. 2 k Ω (when plug-in power is turned ON)
	Approx. 20 $k\Omega$ (when plug-in power is turned OFF)"
	• During LINE input
	Input level: -10 dBV
	Input impedance: Approx. 3 kΩ • Input volume variable range: -36 dB to 12 dB (3 dB step)
	Input volume variable range: -36 dB to 12 dB (3 dB step) Embedded audio output level: -12 dBFS
	Sampling frequency: 48 kHz
	• Quantization bit rate: 24 bit (SDI, HDMI), 16 bit (IP)
Pan-tilt Head Unit -> IP connecting	• If you have a PoE++ ethernet hub
cable	LAN cable *4 *5(category 5e or above, straight cable) Max 100 m (328 ft)
	• If you don't have a PoE++ ethernet hub
	LAN cable *4 *5 (category 5e or above, straight cable) Max 100 m (328 ft)
Pan-tilt Head Unit -> AW protocol	LAN cable *4(category 5e or above, straight cable) Max 1000 m (3280 ft)
connecting cable Pan-tilt Head Unit -> Installation	Stand-alone (Desktop) or suspended (Hanging) *6
Method	Scale dione (Besicopy of Suspended (Hanging)
	25000 d von co. 0.000/c to 6.00/c (No von d no do) *7
Pan-tiit Head Unit -> Pan/tiit Operatioi	n Speed range: 0.08°/s to 60°/s (Normal mode) ^{*7}
•	• 3 speed modes installed
•	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s
Speed Pan-tilt Head Unit -> Panning Range	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175°
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90° *8
Speed Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Microsoft Edge Mac OS v10.14 / Google Chrome
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> Hac *7	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android (IP Streaming -> Image Streaming	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 *to 90 ° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 *to 90 ° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG)	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 °to 90 ° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission	• 3 speed modes installed Normal:60 %s, Fast1:90 %s, Fast2:180 %s ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows 8 Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (MANUAL)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type	• 3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows@ Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (MANUAL) Multicast port (MANUAL) Multicast port (MANUAL)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode (IP Streaming -> Image Resolution (IP Streaming -> Image Transmission Setting (JPEG) (IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type (IP Streaming -> Image Transmission Type	• 3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Wob Browsers -> Image Streaming Wode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type	• 3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode (IP Streaming -> Image Resolution (IP Streaming -> Image Transmission Setting (JPEG) (IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type (IP Streaming -> Image Transmission Type	• 3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 °to 90 °*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode	*3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 to 90 *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Android IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode	*3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30 to 90 *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 25fps / 50fps
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Inage Streaming Mode IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission	*3 speed modes installed Normal:60 %, Fast1:90 %, Fast2:180 % ±175° -30°to 90° *8 NC25 or less Windows ® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 25fps / 50fps 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbp
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Streaming Mode IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Mode IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Mode	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.14 / Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 25fps / 50fps 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbg / 24576kbp
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate	*3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30 fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 25fps / 50fps 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 14336kbps / 16384kbps / 20480kbg / 24576kbp Unicast port (AUTO)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15fps / 30fps / 60fps [150 Hz] 5fps / 12.5fps / 25fps / 55fps 512kbps / 768kbps / 1024kbbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 1024kbbps / 12288kbps / 14336kbps / 16384kbps / 20480kbp / 24576kbp Unicast port (AUTO) Unicast port (AUTO) Unicast port (AUTO) Unicast port (AUTO)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.15 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth NDI 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30fps Image quality (Fine / Normal) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 15.5fps / 30fps / 60fps [50 Hz] 5fps / 12.5fps / 255ps / 50fps 512kbps / 768kbps / 1024kbps / 15288kbps / 14336kbps / 16384kbps / 2048kbp / 24576kbp Unicast port (MIO) Unicast port (MIO) Unicast port (MIO) Unicast port (MANUAL) Multicast port (MOIO) Unicast port (MOIO)
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Setting (H.264) -> Transmission Type IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.18 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.10 / Google Chrome Mac OS v10
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Image Transmission Setting (H.265) -> Transmission Type	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome iOS Safari iPadOS Android OS Google Chrome JPEG(MJPEG), H.264, H.265, NDI® HX version 2 *10 *11 *12 (H.264), High Bandwidth ND 1920×1080, 1280×720, 640×360, 320×180 Frame rate: Maximum 30°fps Image quality (Fine / Normal) Unicast port (AUTO) Unicast port (MANUAL) Multicast port Constant bit rate Frame rate Best effort [60 Hz] 5fps / 155ps / 25fps / 50fps [50 Hz] 5fps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 1024kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbp / 24576kbp Unicast port (MANUAL) Multicast port (AUTO) Unicast port (MANUAL) Multicast port (AUTO) Unicast port (MANUAL) Multicast port (AUTO) Unicast port (MANUAL) Multicast port [60 Hz] 30°fps / 60°fps [50 Hz] 25fps / 50°fps
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type IP Streaming -> Image Transmission Setting (H.265) -> Transmission Type IP Streaming -> Image Transmission Setting (H.265) -> Transmission Setting (H.265) -> Transmission	• 3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90°*8 NC25 or less Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.18 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.19 / Google Chrome Mac OS v10.10 / Google Chrome Mac OS v10
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Tilting range Pan-tilt Head Unit -> Quietness Supported Operating Systems and Web Browsers -> Windows *7 Supported Operating Systems and Web Browsers -> Mac *7 Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> iPhone/iPad Supported Operating Systems and Web Browsers -> Image Streaming Mode IP Streaming -> Image Resolution IP Streaming -> Image Transmission Setting (JPEG) IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Type IP Streaming -> Image Transmission Setting (H.264) -> Transmission mode IP Streaming -> Image Transmission Setting (H.264) -> Frame Rate IP Streaming -> Image Transmission Setting (H.265) -> Image Transmission Setting (H.265) -> Transmission Type	*3 speed modes installed Normal:60°/s, Fast1:90°/s, Fast2:180°/s ±175° -30°to 90° *8 NC25 or less Windows 10 Windows® Internet Explorer® 11(32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v11.0.1 / Safari 14.01 Mac OS v11.0.1 / Google Chrome Mac OS v11.0.1 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.14 / Google Chrome Mac OS v10.15 / Google Chrome Mac OS v10.16 / Google Chrome Mac OS v10.17 / Google Chrome Mac OS v10.18 / Google Chrome Mac OS v10.19 / Google Chrom

	YOUR ARE CARE MUD
IP Streaming -> Supported Protocol ->	ICMP, ARP, GARP, MLD
Network Protocol	
IP Streaming -> Supported Protocol ->	> ICP/IP, UDP/IP
Transmission Protocol	LITTE LITTES DAIS AITE DAISE S ARDAIS SAIME COR AV
	> HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP, 802.1X
IPv6	LITTE LITTES DAIS AITE DAISE A MENUS SAME COMAD AND
IPv4	> HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP, 802.1X
	RTP/RTCP over RTSP, RTMP, RTMPS, SRT,
Video Streaming Protocol	MPEG2-TS over UDP, NDI® HX version 2, High bandwidth NDI®
IP Streaming -> Supported Protocol ->	
External Device Cooperation Protoco	
NDI [®] Support -> NDI [®] Support	NDI® NDI® HX Ver.2: Included as standard *13
	High Bandwidth NDI®: Included as standard*13
NDI [®] Support -> Output Format	1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p,
(NDI [®] High bandwidth) -> HD	720/50p
NDI [®] Support -> Image Resolution	1920x1080, 1280x720
(NDI [®] HX)	
NDI [®] Support -> Image Streaming Setting (NDI [®] High bandwidth) -> Transmission Type	TCP/UDP, Unicast/Multicast
NDI® Support -> Image Streaming	250 Mbps
Setting (NDI [®] High bandwidth) -> Ma	
Bit Rate	
NDI [®] Support -> Image Streaming Setting (NDI [®] HX) -> Transmission Type	TCP/UDP, Unicast/Multicast
NDI [®] Support -> Image Streaming	[60 Hz] 5fps/15fps/30fps/60fps
Setting (NDI [®] HX) -> Flame rate	[50 Hz] 5fps/12.5fps/25fps/50fps
NDI [®] Support -> Image Streaming	512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps /
Setting (NDI [®] HX) -> Max Bit Rate	6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps 24576kbps
NDI [®] Support -> Audio Compression Type (NDI [®] High bandwidth)	AAC, 48 kHz, 2 ch
NDI® Support -> Audio Compression	AAC I C 40 III- 46 bit 2 -b
Type (NDI [®] HX)	AAC-LC, 48 KHZ, 16 DIT, 2 CN
Other Function -> Tally LED Display Color	red / green
Other Function -> VR Support (IP/RS422)	Compatible with FreeD
Footnote Description	*NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries 1. In normal use within the ambient operating temperature range, the PoE+ switch will also work. However, the camera may stop operating or the power supply may be stopped depending on the specifications of the PoE+ switch when the power load exceeds the PoE+ specified power when abnormalities such as pan/tilt is stopped due to external forces or when the ambient temperature has changed significantly. Operation with PoE+ switch is not guaranteed, so please check the operation in advance under the condition of use, and judge the use by yourself. 2. Can be set in 1 dB step increments. 3. Cannot be set when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/23.98p (59.94i), 1080/29.97PsF, 1080/23.98PsF, 1080/25p, 1080/25PsF. 4. STP (Shielded Twisted Pair) is recommended. 5. Use Category 6 or higher when transmitting 4K video.
	6. To ensure safety, the unit must be secured using the mount bracket supplied.

- 6. To ensure safety, the unit must be secured using the mount bracket supplied.
- 7. Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode.
- $\bf 8.$ The main unit may appear in the video depending on the pan/tilt position.
- Supported OS indicated are for browsers current as of August 2020. See "Service and Support / PASS" for the latest information on browser support.
- 10. NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow.
- 11. NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.
- 12. In this instance, NDI® is used to indicate low latency with high bandwidth NDI®, NDI® |HX is used to indicate high efficiency low bandwidth NDI® |HX. In the NDI® |HX mode, 4K video signals cannot be output. AW-UE80 supports NDI® |HX version 2 and Full HD output.
- ${\it 13. Simultaneous\ operation\ with\ the\ AW\ protocol\ is\ not\ possible.}$
- 14. Non-synchronous with SDI-OUT