



## 4K 50/60p PTZ Camera supporting Full-Bandwidth NDI, 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, AW-UE80W/K, can be used in a diversity of applications.

## **Key Features**

Supports a wide variety of IP transmission protocols, including high bandwidth NDI\*1, NDI | 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://ap.connect.panasonic.com/m y/en/products/broadcast-proav/awue80

Power NoE++         12 V DC (10.8 V to 13.2 V) (Supplied AC adapter)           PoE++         (ERS02.3 bit compliant DC42 to 5 7 V (Camera Input)Software authentication (LIDP) is supported?           Current Consumption         3.0 A Supplied AC adaptor), 1.0 A (PoE++ power supply)           Ambient Operating Temperature         4.0 to 50°C 44 to 102.7°F (10.4 °F)           Ambient Operating Humidity         2.0 to 50°C 44 to 102.7°F (10.4 °F)           Mass         Approx. 2.0 kg (4.41 lbs) (sexbuding ceiling mounting bracket). Approx. 2.25 kg (4.96 lbs) (including ceiling mounting bracket).           Dimensions (W x H x D) (mm)         1.70.0 mm x 211.0 mm x 171.0 mm           Dimensions (W x H x D) (mm)         1.70.0 mm x 211.0 mm x 171.0 mm           Dimensions (W x H x D) (mm)         4.70.0 mm x 211.0 mm x 171.0 mm           Dimensions (W x H x D) (mm)         4.70.0 mm x 211.0 mm x 171.0 mm           Controller Supported         4.70.0 mx 171.0 mm x 171.0 mm           AW-USDOW, WhiteAW-WEBOK, Black         4.70.0 mx 171.0 mm x 171.0 mm           Central Unit         4.70.0 mx 171.0 mm x 171.0 mm           Lers         4.70.0 mx 171.0 mm x 171.0 mm           Camera Unit         4.70.0 mx 171.0 mm           Lers         4.70.0 mx 171.0 mm           Lers         4.70.0 mx 171.0 mm           Amplied View 18.0 mx 18.0 mx 171.0 mm x 171.0	General	
		12 V DC (10 8 V to 13 2 V) (Supplied AC adapter)
Supported   Sup	•	
Ambient Operating Temperature		
Ambient Operating Humidity         20 % to 50°C,4°C at 50°L25°C,4°C at 50°L25°C,9°C           Mass         Approx. 2.0 kg (4.41 lbs) lexcluding celling mounting bracket). (including celling mounting bracket).           Dimensions (W x H x D) (mm)         170.0 mm as 121.0 mm as 171.0 mm           Dimensions (W x H x D) (mm)         6.693 inches x 8.307 inches x 6.732/inches           Flish         AW-UEBOW. WhiteAW-UEBOW. Britishes           AW-UEBOW. WhiteAW-UEBOW. Britishes         AW-PEPSOGI, AWR-RM50AG, AK-HRP1000*1, 2, AK-HRP1005*1, 2, AK-HRP105°C, AWR-RM50AG, AK-HRP1000*1, 2, AK-HRP1005*1, 2, AK-HRP105°C, AWR-RM50AG, AK-HRP1000*1, 2, AK-HRP105*2, 2, AK-HRP2105°C.           Camera Unit         Inches 3           Lens         Motorized Optical 24x zoom. F1.8 to F4.0[F4.12 mm(5/32 inches) to 99.9 mm(3-29/31 inches) for 16.30°C inches 310°C inch	Current Consumption	3.0 A (Supplied AC adaptor), 1.0 A (PoE++ power supply)
Storage Temperature	Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Approx. 2, 8 gt. 44.1 lbs.) excluding celling mounting bracket).	Ambient Operating Humidity	20 % to 90 % (no condensation)
Dimensions (W x H x D) (mm)   170.0 mm x 121.0 mm x 171.0 mm   170.0 mm x 1	Storage Temperature	-20 to 50°C (-4 °F to 122 °F)
Dimensions (W x H x D) (inch)	Mass	Approx. 2.0 kg (4.41 lbs) (excluding ceiling mounting bracket), Approx. 2.25 kg (4.96 lbs)
Dimensions (W. X. H. x. D) (inch)		(including ceiling mounting bracket)
Finish	Dimensions (W x H x D) (mm)	170.0 mm x 211.0 mm x 171.0 mm
Controller Supported	Dimensions (W x H x D) (inch)	6.693 inches x 8.307 inches x 6.732inches
Imaging Sensors	Finish	
Camera Unit   Imaging Sensors	Controller Supported	- · · · · · · · · · · · · · · · · · · ·
Lens		HRP1015*2, AK-HRP250*2
Lens		
Conversion Lens   Inches   35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)		••
Conversion Lens         Not supported           Angle of View Range         Horizontal angle of view: 74.1" (wide) to 3.3" (tele) View: 46.0" (wide) to 3.9" (tele)           Optical Filter         Through, 174, 1716, 1764, 1R through (iR through is used as "night mode")           Focus         Switching between auto and manual           Focus Distance         Entire zooming range: 1200 mm (8.9 ft/Wide end: 100 mm (0.33 ft)           Color Separation Optical System         1 MOS           Minimum Illumination         3 k (F1.8, 59.94p, 501RE, 42 dB, without accumulation)           Horizontal Resolution         4.100 of dB to 36 dB*3 (Super Gain function equipped: 37 dB to 42 dB)           Frame Mix         Auto, 0 dB to 36 dB*3 (Super Gain function equipped: 37 dB to 42 dB)           Fleatoric Shutter Speed         1 x60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/4000, 1/1000           Electronic Shutter Speed   39.94p/5994         1 x30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   23.98p/24p         1 x30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1 x30, 1/60, 1/100, 1/120, 1/250, 1/550, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1 x30, 1/60, 1/100, 1/120, 1/250, 1/550, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1 x30, 1/60, 1/100, 1/120, 1	Lens	inches);35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8
Angle of View Range	Zoom	• Optical zoom: 24x• i.Zoom UHD 28x, FHD 36x• Digital extender zoom: 1.4x, 2x
1,9*(tele)Diagonal angle of view. 81.8* (wide) to 3.8* (tele)	Conversion Lens	Not supported
Focus Distance         Switching between auto and manual           Focus Distance         Entire zooming range: 1200 mm (3.9 ft)Wide end: 100 mm (0.33 ft)           Color Separation Optical System         1MOS           Minimum Illumination         3 kx (F1.8, 59.94p, 501RE, 42 dB, without accumulation)           Horizontal Resolution         1,500 TV Typ (Center area, UHD mode, wide), 1,000 TV Typ (Center area, FHD mode, wide (3ain Selection)           Gain Selection         Auto, 0 dB to 36 dBN3 (Super Gain function equipped: 37 dB to 42 dB)           Frame Mix         Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB*4           Electronic Shutter Speed           1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000           59.94p/59.941         1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           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, 1/1000           Electronic Shutter Speed           29.97p         1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           250, 97p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           50p/30         1/25, 1/50, 1/60, 1/100, 1/120, 1/250	Angle of View Range	
Focus Distance	Optical Filter	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "night mode")
Color Separation Optical System         1MOS           Minimum Illumination         3 k (F1.8, 59.94p, 50IRE, 42 dB, without accumulation)           Horizontal Resolution         1,500 TV Typ (Center area, UHD mode, wide)1,000 TV Typ (Center area, EHD mode, wide)           Gain Selection         Auto, 0 dB to 36 dB*3 (Super Gain function equipped : 37 dB to 42 dB)           Frame Mix         Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB*4           Electronic Shutter Speed           1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000           Electronic Shutter Speed           1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000           Electronic Shutter Speed           129.97 p         1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000           Electronic Shutter Speed           129.97 p         1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           129.97 p         1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           129 pm         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed           25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000	Focus	Switching between auto and manual
Minimum Illumination	Focus Distance	Entire zooming range: 1200 mm (3.9 ft)Wide end: 100 mm (0.33 ft)
Horizontal Resolution	Color Separation Optical System	1MOS
Gain Selection         Auto, 0 dB to 36 dB*3 (Super Gain function equipped: 37 dB to 42 dB)           Frame Mix         Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB*4           Electronic Shutter Speed           1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000           59.94)/59.94i         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, 1/1000           Electronic Shutter Speed   23.98p/24p         1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   50p/50i         1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         30.0 Hz to 7200 Hz           Synchro Scan   259,94p/59,941         240, Hz to 7200 Hz           Synchro Scan   259,95p         25.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Synchro Scan   25p	Minimum Illumination	·
Frame Mix	Horizontal Resolution	1,500 TV Typ (Center area, UHD mode, wide)1,000 TV Typ (Center area, FHD mode, wide)
Electronic Shutter Speed   1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   59.94p/59.94i   60.0 Hz to 7200 Hz   59.94p/59.94i   60.0 Hz to 7200 Hz   59.04p/50   59.04p/50   59.04p/50 Hz to 7200 Hz   59.04p/50   50.0 Hz to 7200 Hz		
Hectronic Shutter Speed   1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000		Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB*4
Sepsitive   Seperal   29.97p   1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000   1/8000, 1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/1000   1/8000, 1/8000, 1/1000   1/8000, 1/1000, 1/8000, 1/1000   1/8000, 1/1000, 1/8000, 1/1000, 1/8000, 1/1000, 1/8000, 1/1000, 1/8000,		
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, 1/1000           Electronic Shutter Speed   23.98p/24p         1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Electronic Shutter Speed   25p         1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000           Synchro Scan   59.94p/59.94i         60.0 Hz to 7200 Hz           Synchro Scan   23.98p/24p         24.0 Hz to 7200 Hz           Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Clinema1 / Clinema2 / Still Like           White Balance         In Electronic Shutter Speed   Still Like           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Input         Internal/External synchronization (BBS/Tri-level sync)           Input Connectors         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level s		1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Electronic Shutter Speed   23.98p/24p   1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000   Electronic Shutter Speed   25p   1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000   Syncro Scan   59.94p/59.94i   60.0 Hz to 7200 Hz   Synchro Scan   29.97p   30.0 Hz to 7200 Hz   Synchro Scan   23.98p/24p   24.0 Hz to 7200 Hz   Synchro Scan   50.9/50i   50.0 Hz to 7200 Hz   Synchro Scan   50.9/50i   50.0 Hz to 7200 Hz   Synchro Scan   25.0 Hz to 7200 Hz   Synchro S	·	4/20 4/50 4/400 4/420 4/250 4/500 4/4000 4/2000 4/4000 4/4000
Electronic Shutter Speed   50p/50i   1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000   Electronic Shutter Speed   25p   1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000   Syncro Scan   59,94p/59,94i   60.0 Hz to 7200 Hz   Synchro Scan   29,97p   30.0 Hz to 7200 Hz   Synchro Scan   39,98p/24p   24.0 Hz to 7200 Hz   Synchro Scan   50p/50i   50.0 Hz to 7200 Hz   Synchro Scan   25p   25.0 Hz to 7200 Hz   Synchro Scan   25p   25.0 Hz to 7200 Hz   Synchro Scan   25p   25.0 Hz to 7200 Hz   Synchro Scan   26p/50i   50.0 Hz to 7200 Hz   Synchro Scan   27p   25.0 Hz to 7200 Hz   Synchro Scan   28p   28		
1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/1000		
Synchro Scan   59.94p/59.94i         60.0 Hz to 7200 Hz           Synchro Scan   29.97p         30.0 Hz to 7200 Hz           Synchro Scan   23.98p/24p         24.0 Hz to 7200 Hz           Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Internal/External synchronization (BBS/Tri-level sync)           Input         Output           Output         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output Format         DC 1808/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over\$59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p, 1080/59.94p, 50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 2160/25p (Native), 23.98p (over\$59.94p, 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over\$59.94p, 1080/29.97p (Native), 2160/259.94p, 50p           Video Output         Video Output   HDMI         HDMI 2.0 connector, 4:2:2/10bit· HD		
Synchro Scan   59.94p/59.94i         60.0 Hz to 7200 Hz           Synchro Scan   29.97p         30.0 Hz to 7200 Hz           Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Internal/External synchronization (BBS/Tri-level sync)           Input         Oct 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output         Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p, 50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 2160/25p (Native), 23.98p (voer59.94p), 1080/59.94p, 50p, 2160/29.97p (Native), 2160/25p (Native), 23.98p (voer59.94p), 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (voer59.94p), 1080/59.94p, 50p, 1080/59.94p, 5		1723, 1730, 1700, 17100, 17120, 17230, 17300, 171000, 172000, 174000, 178000, 1710000
Synchro Scan   29.97p         30.0 Hz to 7200 Hz           Synchro Scan   23.98p/24p         24.0 Hz to 7200 Hz           Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Input         Internal/External synchronization (BBS/Tri-level sync)           Input         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output         Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94h), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         HDMI   S	·	60 0 Hz to 7200 Hz
Synchro Scan   23.98p/24p         24.0 Hz to 7200 Hz           Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Input         Internal/External synchronization (BBS/Tri-level sync)           Input         Output Connectors           DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output Format         DOUTPUT Format   SDI   HD           1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native), 720/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/29.94p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 720/59.94p, 50p           Video Output   HDMI         HDMI 2.0 connector, 4:2:2/10b		
Synchro Scan   50p/50i         50.0 Hz to 7200 Hz           Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System           Input         Internal/External synchronization (BBS/Tri-level sync)           Input         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output         Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         HDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported           Input/Output         Input/Output	• • •	
Synchro Scan   25p         25.0 Hz to 7200 Hz           Gamma         HD / Normal / Cinema1 / Cinema2 / Still Like           White Balance         • ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)           Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Internal/External synchronization (BBS/Tri-level sync)           Input         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output         Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (Native), 2160/23.98p (Native), 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (Native), 2160/23.98p (Native), 25p (Native), 23.98p (Native), 25p (Native), 23.98p (Native), 25p (Native), 23.98p (Native), 25p (Native)		
GammaHD / Normal / Cinema1 / Cinema2 / Still LikeWhite Balance• ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)• AWB: AWB: AWB-A / AWB-B• VAR (selectable between 2000 K and 15000 K by designating a value)Chroma Amount VariabilityOFF, -99 % to 99 %Scene FileSynchronization SystemInternal/External synchronization (BBS/Tri-level sync)InputInput ConnectorsDC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)OutputOutput Format1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97ps, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50pOutput Format   HDMI   4K2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)Output Format   HDMI   HD1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50pVideo OutputHDMI   HDMI   HDMI   HDMI   HDMI   HDMI   HDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supportedVideo Output   3G-SDI OUTSMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supportedInput/Output		
* ATW: 3200 K, 5600 K (ATW Speed 3-stage variables.)* AWB: AWB-A / AWB-B* VAR (selectable between 2000 K and 15000 K by designating a value)  Chroma Amount Variability  OFF, -99 % to 99 %  Scene File  Synchronization System  Internal/External synchronization (BBS/Tri-level sync)  Input  Input Connectors  DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)  Output  Output Format  Output Format   SDI   HD  1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Output Format   HDMI   4K  2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)  Output Format   HDMI   HD  1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Video Output  Video Output   HDMI   HDMI   HDMI 2.0 connector, 4:2:2/10bit* HDCP is not supported.* Viera Link is not supported  Video Output   3G-SDI OUT   SMPTE292M/424M/ 75 Ω(BNC×1)* Level-A/Level-B supported  Input/Output		
(selectable between 2000 K and 15000 K by designating a value)  Chroma Amount Variability OFF, -99 % to 99 %  Scene File  Synchronization System Internal/External synchronization (BBS/Tri-level sync)  Input Input Connectors DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)  Output Output Format Output Format   SDI   HD 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Output Format   HDMI   4K 2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native) 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Video Output Video Output   HDMI   HDMI   HDMI 2.0 connector, 4:2:2/10bit HDCP is not supported. Viera Link is not supported Video Output   3G-SDI OUT SMPTE292M/424M/ 75 Ω(BNC×1) Level-A/Level-B supported Input/Output		
Chroma Amount Variability         OFF, -99 % to 99 %           Scene File         Synchronization System         Internal/External synchronization (BBS/Tri-level sync)           Input         Input Connectors         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output Format         Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         HDMI         HDMI 2.0 connector, 4:2:2/10bit· HDCP is not supported. Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1)· Level-A/Level-B supported           Input/Output		· · · · · · · · · · · · · · · · · · ·
Scene File         Synchronization System         Internal/External synchronization (BBS/Tri-level sync)           Input         Input Connectors         DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)           Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output           Video Output   HDMI         HDMI 2.0 connector, 4:2:2/10bit · HDCP is not supported. · Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1) · Level-A/Level-B supported           Input/Output	Chroma Amount Variability	, , , , ,
Input   Connectors		
Input Connectors   DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)	Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Output           Output Format           Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         Video Output   HDMI         HDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported           Input/Output	Input	
Output Format         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         HDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported           Input/Output	Input Connectors	DC 12 V IN, G/L IN(BNC)BBS (Black Burst Sync), tri-level sync supported)
Output Format   SDI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Output Format   HDMI   4K         2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)           Output Format   HDMI   HD         1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p           Video Output         HDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supported           Video Output   3G-SDI OUT         SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported           Input/Output	Output	
(over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Output Format   HDMI   4K  2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)  Output Format   HDMI   HD  1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Video Output  Video Output   HDMI	Output Format	
2160/23.98p (Native)   2160/23.98p (Native)   1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p   Video Output   HDMI	Output Format   SDI   HD	(over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native),
(over59.94p), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p  Video Output  Video Output   HDMI	Output Format   HDMI   4K	2160/23.98p (Native)
Video Output   HDMIHDMI 2.0 connector, 4:2:2/10bit• HDCP is not supported.• Viera Link is not supportedVideo Output   3G-SDI OUTSMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supportedInput/Output		
Video Output   3G-SDI OUT     SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported       Input/Output	· · · · · · · · · · · · · · · · · · ·	
Input/Output		
·	_ · ·	SMPTE292M/424M/ 75 Ω(BNC×1)• Level-A/Level-B supported
	· · · · · · · · · · · · · · · · · · ·	
Input/Output Connector	Input/Output Connector	

Input/Output Connector	IIAN	LAN terminal for IP control (RJ-45)
Input/Output Connector		CONTROL IN RS422A(R)-45)
MIC/Line Input		AAC compatibility (compatible with IP only)Φ3.5 mm stereo mini jack• During MIC inputInput 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 kΩ (when plug-in power is turned ON)Approx. 20 kΩ (when plug-in power is turned OFF)"• During LINE inputInput level: -10 dBVInput impedance: Approx. 3 kΩ• Input volume variable range: -36 dB to 12 dB (3 dB step)• Embedded audio output level: -12 dBFS• Sampling frequency: 48 kHz• Quantization bit
Pan Tilt Head Unit		rate: 24 bit (SDI, HDMI), 16 bit (IP)
Camera/Pan-Tilt Head Co	ontrol	
IP Connecting Cable		• If you have a PoE++ ethernet hubLAN cable*5, 6 (category 5e or above, straight cable)
		Max 100 m (328 ft)• If you don't have a PoE++ ethernet hubLAN cable*5, 6 (category 5e or above, straight cable) Max 100 m (328 ft)
AW Protocol Connecting	Cable	LAN cable*5 (category 5e or above, straight cable) Max 1000 m (3280 ft)
Installation Method		Stand-alone (Desktop) or suspended (Hanging)*7
Pan/Tilt Operation Speed		Speed range: 0.08°/s to 60°/s (Normal mode)*8  • 3 speed modes installedNormal:60°/s, Fast1:90°/s, Fast2:180°/s
Panning Range		±175°
Tilting Range		-30°to 90°*9
Quietness		NC25 or less
Image Streaming Mode		JPEG(MJPEG), H.264, H.265, NDI®   HX version 2*11, 12, 13 (H.264), High Bandwidth NDI®
Supported operating sys	tems and	
web browsers Windows		Windows 10
windows		Windows® Internet Explorer® 11(32 bit / 64 bit)  Microsoft Edge  Google Chrome
Mac		Mac OS v11.0.1 / Safari 14.01
mac .		
	Mac OS v11.0.1 / Google Chrome	
	Mac OS v10.15 / Google Chrome	
		Mac OS v10.14 / Google Chrome
iPhone / iPad	iOS	
	Safari	
	iPadOS	
Android		Android OS
Allulolu		
		Google Chrome
IP Streaming		1020×1000 1200×720 640×260 220×100
Image Resolution	ing (IDEG)	1920×1080, 1280×720, 640×360, 320×180  Frame rate: Maximum 30fpsImage quality (Fine / Normal)
Image Transmission Setting (JPEG) Image Transmission Setting (H.264)	Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port	
	Transmission Priority: Constant bit rate, Frame rate, Best effort	
	Frame Rate: [60 Hz] 5fps / 15fps / 30fps / 60fps, [50 Hz] 5fps / 12.5fps / 25fps / 50fps	
	Max Bit Rate: 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps / 4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps / 20480kbps / 24576kbps	
Image Transmission Sett	ing (H.265)	Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port
	Transmission Priority: Constant bit rate, Frame rate, Best effort	
	Frame Rate: [60 Hz] 30fps / 60fps, [50 Hz] 25fps / 50fps	
	Max Bit Rate: 512kbps / 768kbps / 1024kbps / 1536kbps / 2048kbps / 3072kbps /	
	4096kbps / 6144kbps / 8192kbps / 10240kbps / 12288kbps / 14336kbps / 16384kbps /	
		4030kbp3/0144kbp3/0132kbp3/10240kbp3/12200kbb3/14330kbb3/10364kbb3/
		20480kbps / 24576kbps
Audio Compression Type	1	
Supported Protocol		20480kbps / 24576kbps AAC-LC, 48 kHz, 16 bit, 2 ch
Supported Protocol Supported protocol   IPv	6	20480kbps / 24576kbps AAC-LC, 48 kHz, 16 bit, 2 ch TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT
Supported Protocol	6	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP,
Supported Protocol Supported protocol   IPv Supported protocol   IPv	6	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT
Supported Protocol Supported protocol   IPv	6	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP,
Supported Protocol Supported protocol   IPv Supported protocol   IPv NDI Support	6 4	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Supported Protocol Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett	6 4 D HX versio	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Supported Protocol Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI®	6 4 D HX versio	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Supported Protocol Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett	6 4 D HX versio ring (High	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®   HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast
Supported Protocol Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®) Image Transmission Sett (NDI®   HX version 2)	6 4 HX versio ing (High	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®) Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI®	6 4 ⊅ HX versio ing (High ing	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®) Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI®	6 4 ⊅ HX versio ing (High ing	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®) Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI®	6 4 ⊅ HX versio ing (High ing	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT  TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®  HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats  Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®) Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI® Audio Compression Type version 2 New Functions F-Number Display	6 4 )  HX versio ting (High ting e   High	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®   HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch  C AAC-LC, 48 kHz, 16 bit, 2 ch  Displayed on the AW-RP150GJ and AW-RP60GJ sides
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats  Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®)  Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI® Audio Compression Type Sundwidth NDI® Audio Compression Type Version 2 New Functions F-Number Display Menu Display on IP Video	6 4 )  HX versio ting (High ting e   High	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®   HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch  C AAC-LC, 48 kHz, 16 bit, 2 ch  Displayed on the AW-RP150GJ and AW-RP60GJ sides Supported*15
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats  Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®)  Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI® Audio Compression Type Sundin Compression Type Version 2 New Functions F-Number Display Menu Display on IP Video Power LED	6 4 D HX versio Ling (High E High E NDI® H)	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®   HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch  C AAC-LC, 48 kHz, 16 bit, 2 ch  Displayed on the AW-RP150GJ and AW-RP60GJ sides Supported*15 ON/OFF control
Supported Protocol Supported protocol   IPv Supported protocol   IPv Supported protocol   IPv NDI Support Output Formats  Image Resolution   NDI® 2 Image Transmission Sett Bandwidth NDI®)  Image Transmission Sett (NDI®   HX version 2) Audio Compression Type Bandwidth NDI® Audio Compression Type Sundwidth NDI® Audio Compression Type Version 2 New Functions F-Number Display Menu Display on IP Video	6 4  i)  HX versio ing (High ing   High   NDI®  H)	20480kbps / 24576kbps  AAC-LC, 48 kHz, 16 bit, 2 ch  TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTSP/RTP, MLD, ICMP, ARP, SRT TCP/IP, UDP/IP, HTTP, HTTPS, RTSP/RTP, MPEG2-TS, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT  NDI®   HX version 2: Included as standardHigh Bandwidth NDI®: Included as standard*14  High Bandwidth NDI®: 【HD】 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p  n 1920x1080, 1280x720  Transimission Type: TCP/UDP, Unicast/Multicast  Max Bit Rate: 250 Mbps  Transimission Type: TCP/UDP, Unicast/Multicast  AAC-LC, 48 kHz, 2 ch  C AAC-LC, 48 kHz, 16 bit, 2 ch  Displayed on the AW-RP150GJ and AW-RP60GJ sides Supported*15 ON/OFF control

The lens surface faces backward when standing by (ON/OFF)* Default is OFF
OIS 2-axisMENU switching: Select between Off/O.I.S.(STABLE)/O.I.S.(PAN/TILT)
red / green
Supports FreeD protocol
*1:Discontinued Model*2:Will be supported in the future*3:Can be set in 1 dB step increments.*4:Cannot be set when the format is 2160/29.97p, 2160/23.98p, 2160/24p,

\*1:Discontinued Model\*2:Will be supported in the future\*3:Can be set in 1 dB step increments.\*4: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.\*5:STP (Shielded Twisted Pair) is recommended.\*6:Use Category 6 or higher when transmitting 4K video.\*7:To ensure safety, the unit must be secured using the mount bracket supplied.\*8:Note that the operating noise may be loud in high speed. If the operating noise is disturbing, use the Normal mode.\*9:The main unit may appear in the video depending on the pan/tilt position.\*10:Supported OS indicated are for browsers current as of August 2020. See "Service and Support / PASS" for the latest information on browser support.\*11:NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow.\*12:NDI® is a registered trademark of NewTek, Inc. in the United States.\*13: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.\*14:Simultaneous operation with the AW protocol is not possible.\*15:Non-synchronous with SDI-OUT