

Specifications

As of August, 2020

<GENERAL>

Power Requirements:	12 V DC (10.8 V to 13.2 V) (Supplied AC adaptor) 42 V to 57 V DC (PoE++ power supply)
PoE++:	IEEE802.3bt standard: DC 42 V to 57 V (Camera Input) (Software authentication (LLDP) is supported)
Current Consumption:	3.0 A (Supplied AC adaptor) 1.0 A (PoE++ power supply)
Ambient Operating Temperature:	0 °C to 40 °C (32 °F to 104 °F)
Ambient Operating Humidity:	20 % to 90 % (no condensation)
Storage Temperature:	−20 °C to 50 °C (−4 °F to 122 °F)
Mass:	Approx. 2.2 kg (4.84 lb) (excluding cable cover, mount bracket) Approx. 2.3 kg (5.06 lb) (including cable cover, excluding mount bracket)
Dimensions (W x H x D):	169.2 mm x 204.6 mm x 170.6 mm (6-21/32 inches x 8-1/16 inches x 6-23/32 inches) (excluding protrusions, cable cover, mount bracket)
Finish:	AW-UE100WP/AW-UE100WPC/AW-UE100WE/AW-UE100WED: Pearl white AW-UE100KP/AW-UE100KPC/AW-UE100KE/AW-UE100KED: Black
Controller Supported:	AW-RP150GJ, AW-RP60GJ

<Camera Unit>

Imaging Sensors:	1/2.5-type 4K MOS x 1
Lens:	Motorized Optical 24x zoom, F1.8 to F4.0 [f=4.12 mm (11/32 inches) to 98.9 mm (3-29/32 inches); 35 mm (1-3/8 inches) equivalent: 25.0 mm (31/32 inches) to 600.0 mm (23-5/8 inches)]
Zoom:	<ul style="list-style-type: none">Optical zoom : 24x i.Zoom: UHD 28x, FHD 36x Digital extender zoom: 1.4x, 2x
Conversion Lens:	Not supported
Angle of View Range:	Horizontal angle of view: 74.1°(wide) to 3.3°(tele) Vertical angle of view: 46.0°(wide) to 1.9°(tele) Diagonal angle of view: 81.8°(wide) to 3.8°(tele)
Optical Filter:	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")
Focus:	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
Standard Sensitivity:	F4/2000 lx (When [Shooting Mode] is [Normal]) F5.6/2000 lx (When [Shooting Mode] is [High Sens.])
Minimum Illumination:	3 lx (conditions: F1.8, 59.94p, 50 IRE, 42 dB, without accumulation)
S/N:	60dB(typ) (When [Shooting Mode] is [Normal])
Horizontal Resolution:	1500 TV lines Typ (Center area)
Gain Selection:	Auto, 0 dB to 36 dB** <ul style="list-style-type: none">Super Gain function installed: 37 dB to 42 dB
Frame Mix**:	Auto, 0 dB, 6 dB, 12 dB, 18 dB, 24 dB
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 29.97p 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 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, 1/10000 50p/50i 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 25p 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Synchro Scan:	59.94p/59.94i 60.00 Hz to 7200 Hz 29.97p 30.00 Hz to 7200 Hz 23.98p/24p 24.00 Hz to 7200 Hz 50p/50i 50.00 Hz to 7200 Hz 25p 25.00 Hz to 7200 Hz
Gamma:	HD/FILMLIKE1 / FILMLIKE2 / FILMLIKE3
White Balance:	ATW, 3200K, 5600K AWB: AWB-A/AWB-B VAR (selectable between 2000K and 15000K by designating a value)
Chroma Amount Variability:	OFF, −99 % to 99 %
Scene File:	Scene1, Scene2, Scene3, Scene4
Output Format:	SDI Output 2160/59.94p, 2160/50p, 2160/29.97p*, 2160/25p*, 2160/24p*, 4K 2160/23.98p* SDI Output 1080/59.94p, 1080/50p, 1080/29.97p**, 1080/29.97PsF, 1080/25p**, 1080/25PsF, 1080/23.98p**, 1080/24p**, 1080/23.98p*, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p

Output Format:	HDMI Output 2160/59.94p, 2160/50p, 2160/29.97p*, 2160/25p*, 2160/24p*, 4K 2160/23.98p* HDMI Output 1080/59.94p, 1080/50p, 1080/29.97p**, 1080/25p*, 1080/23.98p**, 1080/24p**, 1080/23.98p*, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
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<Synchronization System>

Internal / External synchronization (BBS/Tri-level sync)

<INPUT>

Input Connector:	DC IN 12 V G/L IN:	BBS (Black Burst Sync), tri-level sync supported 75 Ω terminal (BNCx1)
AUDIO IN:	MIC/LINE input Compatible (SDI/HDMI/IP) AAC compatible (compatible with IP only) ø 3.5 mm stereo mini jack Input impedance: Approx. 10 kΩ (unbalanced) <ul style="list-style-type: none">During MIC input <ul style="list-style-type: none">Input level: −40 dBV (0 dB=1 V/Pa, 1 kHz) Plug-in power compatible, supply voltage: 2.5 V ± 0.5 V During LINE input <ul style="list-style-type: none">Input level: −10 dBV 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: 24bit (SDI, HDMI), 16bit (IP)	

<OUTPUT>

Video Output:	HDMI 4:2:2/10bit	HDMI HDMI connector 4:2:2/10bit <ul style="list-style-type: none">HDCP is not supported. Viera Link is not supported.
12G-SDI OUT	SMPTE 2082-1/SMPTE292 standard/75 Ω (BNC x 1)	
3G-SDI OUT	SMPTE292/75 Ω (BNC x 1) <ul style="list-style-type: none">Level-A/Level-B supported	

<INPUT/OUTPUT>

Input / Output Connector:	LAN RJ-45 LAN terminal for IP control and video transmission PoE++ power terminal (IEEE802.3bt compliant)
	RS-422 CONTROL IN RS-422A (RJ-45)

<Pan-tilt Head Unit>

Camera/Pan-tilt Head Control:	IP connecting cable <ul style="list-style-type: none">When connecting through a PoE++ hub <ul style="list-style-type: none">LAN cable** (category 5e or above, straight cable), max. 100 m (328 ft) When a PoE++ hub is not used <ul style="list-style-type: none">LAN cable** (category 5e or above, straight cable), max. 100 m (328 ft) AW protocol connecting cable <ul style="list-style-type: none">LAN cable** (category 5e or above, straight cable), max. 1000 m (3280 ft)
Installation Method:	Stand-alone (Desktop) or suspended (Hanging)**
Pan/tilt Operation Speed:	Speed range: 0.08°/s to 60°/s (Normal mode) <ul style="list-style-type: none">3 speed modes installed Normal: 60°/s, Fast1: 90°/s**, Fast2: 180°/s**
Panning Range:	±175°
Tilting range:	−30° to 210°**
Quietness:	NC30 or less

<Supported operating systems and web browsers>**9

Supported operating systems and web browsers:	Windows Microsoft® Windows® 10 Windows® Internet Explorer® 11 (64bit/32bit) Microsoft Edge Google Chrome
	Mac macOS 10.13/Safari 13 macOS 10.14/Safari 13 macOS 10.15/Safari 13 macOS 10.15/Google Chrome
	iPhone / iPad iOS Safari iPadOS
	Android Android OS Google Chrome

<IP Streaming>

Image Streaming Mode: JPEG(MJPEG), H.264, H.265, NDI®|HX, High Bandwidth NDI®

Image Resolution: 3840x2160, 1920x1080, 1280x720, 640x360, 320x180

Image Transmission setting (JPEG): Frame Rate: Maximum 30 fps
Image quality (Fine / Normal)

Image Transmission Setting (H.264):	<ul style="list-style-type: none">Image quality [Motion priority, Image quality priority] Transmission Type: Unicast port (AUTO) Unicast port (MANUAL) Multicast port Transmission Priority <ul style="list-style-type: none">Constant bit rate Frame rate Best effort Frame Rate [60Hz] 5fps/15fps/30fps/60fps (UHD: 30fps, 60fps) [50Hz] 5fps/12.5fps/25fps/50fps (UHD: 25fps, 50fps) Max Bit Rate 512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps/6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps/32768kbps/40960kbps/51200kbps/76800kbps
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Image Transmission Setting (H.265):	<ul style="list-style-type: none">Transmission Type: Unicast port (AUTO) Unicast port (MANUAL) Multicast port Frame Rate [60Hz]30fps [50Hz]25fps Max Bit Rate 8192kbps/12288kbps/25600kbps/51200kbps/76800kbps
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Audio Compression Type: AAC-LC, 48 kHz / 16 bit / 2ch

Supported Protocol:

- IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP, RTMP, SRT
- IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT

<Other Function>

NDI® support: NDI® | HX: Included as standard
High Bandwidth NDI®: Included as standard

Tally LED display color: red / green

*1: 1 dB steps. *2: This cannot be configured 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. *3: Native output. *4: OVER 59.94i output (your monitor may recognize the signal as 59.94i). *5: Use of an STP (shielded twisted pair) cable is recommended. *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. *8: Depending on the pan or tilt position, the camera may be reflected in the image. *9: Supported OS indicated are for browsers current as of August 2020. See "Service and Support / PASS" on the Panasonic website (<https://pro-av.panasonic.net/en/>) for the latest information on browser support. *10: It denotes "1080/23.98p over 59.94p"