Remote Camera System – Specifications & Dimensions

AW-UE70W/K   AW-UN70W/K

General

Power Requirements	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)
Current consumption	1.3 A (Supplied AC adaptor) 0.5 A (PoE+ power supply)
Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	–20 °C to 50 °C (–4 °F to 122 °F)
Allowable Humidity Ranges	20 % to 90 % (no condensation)
Mass	Approx. 1.5 kg (3.30 lb)
Dimensions (W x H x D)	160 mm x 186 mm x 179 mm (6-5/16 inches x 7-41/128 inches x 7-3/64 inches) [excluding protrusions, direct ceiling mount bracket]
Finish	[AW-UE70W/AW-UN70W] Pearl white [AW-UE70K/AW-UN70K] Metallic black
Controller Supported*1	AW-RP50, AW-RP120G, AK-HRP200G

Camera Unit

Imaging Sensors		1/2.3-type MOS
Lens		Optical 20x zoom, F1.8 to F3.6 [f=4.08 mm (5/32 inches) to 81.6 mm (3-7/32 inches); 35 mm (1-3/8 inches)equivalent: 29.5 mm (1-5/32 inches) to 612.0 mm (24–3/32 inches)]
Focus		Switching between auto and manual
Focus distance		Entire zooming range:1.5 m (4.92 ft) Wide end: 10 cm (0.33 ft)
Color separation optical system		On-chip color filter system
Minimum Illumination	59.94 Hz	0.7 lx (50 IRE, F1.8, 48 dB,1/60 without accumulation) 0.35 lx (50 IRE, F1.8, 48 dB,1/30 with accumulation [Frame Mix 6 dB])
	50 Hz	0.7 lx (50 IRE, F1.8, 48 dB,1/50 without accumulation) 0.35 lx (50 IRE, F1.8, 48 dB,1/25 with accumulation [Frame Mix 6 dB])
Horizontal Resolution		4K : 1300 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)
Gain Selection*2		Auto, 0 dB to 48 dB (3 dB step)
Frame Mix*3		Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB
ND filter		Auto*4, Through, 1/4, 1/16, 1/64
Electronic Shutter Speed	During Full Auto	1/60 to 1/2000 (Auto Slow Shutter: Off)[59.94 Hz] 1/30 to 1/2000 (Auto Slow Shutter: On)[59.94 Hz] 1/50 to 1/2000 (Auto Slow Shutter: Off)[50 Hz] 1/25 to 1/2000 (Auto Slow Shutter: On)[50 Hz]
	During Auto	1/60 to 1/2000 [59.94 Hz] 1/50 to 1/2000 [50 Hz]
	During Manual	1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz] 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50 Hz]
Synchro Scan	59.94 Hz	59.94 Hz to 660.09 Hz (255 step)
	50 Hz	50.00 Hz to 570.12 Hz (255 step)
Gamma		Off, Normal (Low, Mid, High), Cinema
White Balance		ATW, AWB A, AWB B, ATW, 3200K,5600K, VAR (2400K to 9900K)
Chroma Amount Variability		±3 step
Scene File		Full Auto, Manual1, Manual2, Manual3

Synchronization System

Synchronization System	Internal synchronization/External synchronization (BBS, Tri-level sync)

Image Stabilization

Image Stabilization	Optical (FHD, 4K)/4-axis hybrid image stabilizer (FHD) for stable

Input

Power	DC 12 V IN, PoE+ (IEEE802.3at standard)
MIC/LINE Input	Stereo mini-jack (ø3.5 mm) Input impedance: Approx. 2 kΩ (unbalanced) [Mic input] •Supported microphones: Stereo mic (plug-in power, on/off switching via menu) •Supplied voltage: 2.5 V ± 0.5 V •Mic input level: –60 dBV ± 3 dBV (0 dB=1 V/Pa,1 kHz) [Line input] •Input level: -10 dBV ± 3 dBV
G/L IN	BBS (Black Burst Sync) signal and tri-level sync supported (BNC x 1)

Output

Video Output	HDMI	HDMI connector • HDCP is not supported. • VIERA Link is not supported.
	3G/HD-SDI OUT	Compliant with the SMPTE424/SMPTE292M standards/75 Ω (BNC x 1)

Input/Output

Input/ Output Connnector	LAN	LAN connector for IP control (RJ-45) Equipped with straight/crossover cable auto detection function
	RS-232C	Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)
	RS-422	CONTROL IN RS422A (RJ-45)
	USB	Mini-B port
	SD Card	microSD card slot

USB connection   * This may vary depending on the operating environment.

Video output	USB Video Class Ver1.0
Video compression format	Motion JPEG
Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
Frame rate	max 30 fps (59.94 Hz) max 25 fps (50 Hz)
Audio output	USB Audio Class Ver1.0
Audio compression format	Linear PCM, 48 kHz, 16-bit, 2 channels
Transfer modes(JPEG)	3840 x 2160 59.94 Hz: 5fps, 50 Hz: 5fps 1920 x 1080/1280 x 720/640 x 360 59.94 Hz: 30fps/15fps/5fps, 50 Hz: 25fps/12.5fps/5fps
Supported models	Devices standardly equipped with a USB 2.0 compatible port

Pan–tilt Head Unit

Installation Method	Stand-alone (Desktop) or suspended (Hanging)*5
Pan/tilt Operation Speed	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s
Panning Range	±175°
Tilting Range*5	–30° to 90°*6
Quietness	During preset: NC40 or less During manual: NC35 or less

Camera/pan–tilt head control

IP connecting cable	• When connecting through a PoE+ hub: LAN cable*7 (category 5e or above), max. 100 m (328 ft) • When a PoE+ hub is not used: LAN cable*7 (category 5 or above) max.100 m (328 ft)
AW protocol connecting cable	LAN cable*7 (category 5 or above,straight cable), max. 1000 m (3280 ft)
Standard protocol connecting cable	Mini DIN 8-pin cable, male

SD card recording

SD card recording	MPEG-4 AVC file standard compliant (.MP4)
Video compression format	MPEG-4 AVC/H.264 High Profile
Audio compression format	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)

Recording format /Bit rate	59.94 Hz	3840 x 2160/29.97p (Up to 72 Mbps), 1920 x 1080/59.94p (Up to 28 Mbps), 1920 x 1080/29.97p (Average 15 Mbps/ Average 10 Mbps/Average 6 Mbps), 1280 x 720/59.94p (Average 15 Mbps), 1280 x 720/29.97p (Average 8 Mbps/ Average 4 Mbps/Average 2 Mbps/Average 1 Mbps)
	50 Hz	3840 x 2160/25p(Up to 72 Mbps), 1920 x 1080/50p(Up to 28 Mbps), 1920 x 1080/25p(Average 15 Mbps/ Average 10 Mbps/Average 6 Mbps), 1280 x 720/50p(Average 15 Mbps), 1280 x 720/25p(Average 8 Mbps/ Average 4 Mbps/Average 2 Mbps/Average 1 Mbps)

Network

Transfer modes	JPEG	1920 x 1080, 1280 x 720, 640 x 360, 320 x 180, 59.94 Hz (30fps/15fps/5fps)*8, 50 Hz (25fps/12.5fps/5fps)*8
	H.264	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180, 59.94 Hz (60fps*9/30fps/15fps/5fps)*8, 50 Hz (50fps*9)/25fps/12.5fps/5fps)*8

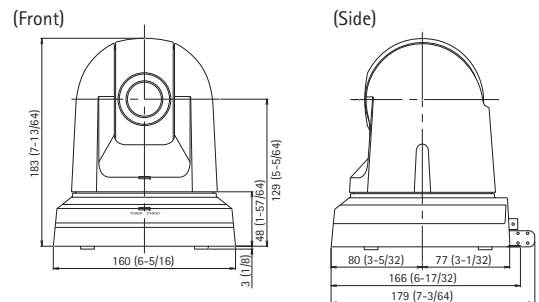| Supported protocol	IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
	IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS,NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
i-OS, Android support		JPEG image display

Standard Accessories

Mount bracket for installation surface (Hanging*10 / Desktop): 1, Drop-prevention wire (already attached to the unit): 1, Bracket mounting screws (bind-head) M4 x 10 mm: 4, Main unit mounting screw (with flat washer, spring washer) M3 x 6 mm: 1, Power cable (1.5 m [4.92 ft]): 1, AC adaptor: 1, CD-ROM: 1

* 1: It may be necessary to upgrade the version of the controller so that the controller will support the unit. * 2: During Auto, 6 dB to 48 dB (6 dB step) are available for AGC Max Gain setting. * 3: During Auto, 0 dB, 6 dB, 12 dB and 18 dB are available for Auto F.Mix Max Gain setting. * 4: "Auto" is available when "Scene" setting is "Full Auto". * 5: To ensure safety, the unit must be secured using the mount bracket supplied. * 6: Depending on the pan or tilt position, the camera may be reflected in the image. * 7: Use of an STP (shielded twisted pair) cable is recommended. *8: The frame rate may be lower than the setting depending on the operating conditions. * 9: When the image resolution is "3840x2160", "640x360" or"320x180", 60fps or 50fps cannot be selected for the frame rate. *10: To ensure more safety, AW-UE70W/K can be secured by using the direct ceiling mount bracket (WV-Q105A).
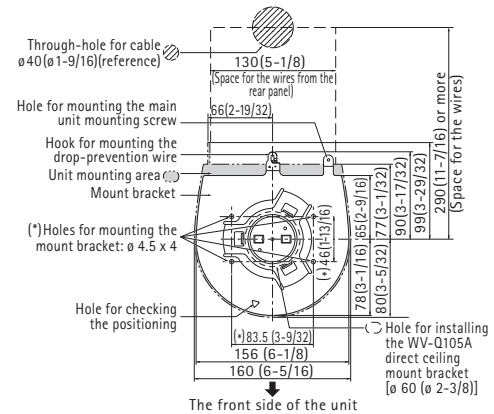
Dimensions
Unit: mm(inches)

(Front)   (Side)

Rear View

Bottom View
Unit: mm(inches)

The front side of the unit

Ceiling Installation View

Optimal for both hanging and desktop installation.

The mounting bracket and drop-preventation wire are standard accessories. Ceiling and desktop installation are both possible. Mount the bracket onto the installation surface and then put and turn the main unit on the bracket to be installed.

●The mounting bracket for discontinued AW-HE50 and AW-HE60 and current AW-HE40 series, AW-HN40HW/HK, AW-HE38HW/HK and AW-HN38HW/HK can also be used.

* Wiring, mounting, and removal must be done by a qualified technician. To ensure safety, consult with the dealer from whom you purchased the system.