

Specifications

As of September, 2015

GENERAL	Power requirements	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)		Output format	HD	2160:29.97p/25p (HDMI only) 1080:59.94p/50p 1080:59.94i/50i 1080:29.97p/25p 1080:29.97PsF/25PsF 720:59.94p/50p
	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] Pearl white [AW-UE70K] Metallic black					
	Controller supported*1	AW-RP50, AW-RP120G, AK-HRP200G				
Power	DC 12 V IN, PoE+ (IEEE802.3at standard)					
INPUT	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	Compatible with BBS (Black Burst Sync) signals and ternary synchronizing signals (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 connector	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			
[Camera unit]						
Imaging sensors		1/2.3-type MOS				
Lens		Motorized 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				
FUNCTIONS AND PERFORMANCE	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, 4/16, 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]		
	Synchro scan	Gamma	1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz]			
			Manual	1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50 Hz]		
White balance		Off, Normal (Low, Mid, High), Cinema				
Chroma amount variability		ATW, AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K)				
Scene file		±3 step Full Auto, Manual1, Manual2, Manual3				
[Camera/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		-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 hub: LAN cable*7 (category 5 or above), max. 100 m (328 ft) When using a PoE+ hub: LAN cable*7 (category 5e or above), max. 100 m (328 ft) When a 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	3840x2160/29.97p (Up to 72 Mbps), 1920x1080/59.94p (Up to 28 Mbps), 1920x1080/29.97p (Average 15 Mbps/Average 10 Mbps/Average 6 Mbps), 1280x720/59.94p (Average 15 Mbps), 1280x720/29.97p (Average 8 Mbps/Average 4 Mbps/Average 2 Mbps)				
		50 Hz	3840x2160/25p (Up to 72 Mbps), 1920x1080/50p (Up to 28 Mbps), 1920x1080/25p (Average 15 Mbps/Average 10 Mbps/Average 6 Mbps), 1280x720/50p (Average 15 Mbps), 1280x720/25p (Average 8 Mbps/Average 4 Mbps/Average 2 Mbps)			
[Network]						
Transfer modes	JPEG	1920x1080, 1280x720, 640x360, 320x180, 59.94 Hz (30fps/15fps/5fps)*8 50 Hz (25fps/12.5fps/5fps)*8				
		H.264	3840x2160, 1920x1080, 1280x720, 640x360, 320x180, 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, RTMP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast				
	IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTMP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast				
i-OS, Android support		JPEG image display				
ACCESSORIES						
Mount bracket for installation surface (Hanging*10 / Desktop): 1		Drop-prevention wire (already attached to the unit): 1				
Bracket mounting screws (blind-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" setting 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).