

AW-HE42W/K Specifications

As of June, 2019

GENERAL		Power requirements		DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)	Output format	HD	1080:59.94p/50p 1080:59.94i/50i 1080:29.97p/25p 1080:29.97PsF/25PsF 720:59.94p/50p	
GENERAL	Current consumption	1.3 A (Supplied AC adaptor) 0.5 A (PoE+ power supply)			Synchronization system	Internal synchronization/External synchronization (BBS, Tri-level sync)		
	Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)			Image stabilization	Optical /4-axis hybrid image stabilizer for stable		
	Storage temperature	-20 °C to 50 °C (-4 °F to 122 °F)			[USB connection]	* This may vary depending on the operating environment.		
	Allowable humidity ranges	20 % to 90 % (no condensation)			Video output	USB Video Class Ver1.0		
	Mass	Approx. 1.5 kg (3.30 lb)			Video compression format	Motion JPEG		
	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]			Resolution	1920 x 1080, 1280 x 720, 640 x 360		
	Finish	[AW-HE42W] Pearl white [AW-HE42K] Metallic black			Frame rate	max 30 fps (59.94 Hz) max 25 fps (50 Hz)		
	Controller supported ^{*1}	AW-RP150GJ ^{*1} , AW-RP50, AK-HRP1000GJ ^{*1} , AK-HRP1005GJ ^{*1}			Audio output	USB Audio Class Ver1.0		
	Power	DC 12 V IN, PoE+ (IEEE802.3at standard)			Audio compression format	Linear PCM, 48 kHz, 16-bit, 2 channels		
	INPUT	Mic/line input	Stereo mini-jack (ø3.5 mm)			Transfer modes (JPEG)	1920x1080/1280x720/640x360 59.94 Hz: 30fps/15fps/5fps, 50 Hz: 25fps/12.5fps/5fps	
Input impedance: Approx. 2 kΩ (unbalanced)				Supported models	Devices standardly equipped with a USB 2.0 compatible port			
[Mic input]				[Pan-tilt head unit]				
Supported microphones: Stereo mic (plug-in power, on/off switching via menu)				Installation method	Stand-alone (Desktop) or suspended (Hanging) ^{*5}			
Supplied voltage: 2.5 V ± 0.5 V				Pan/tilt operation speed	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s			
G/L IN	BBS (Black Burst Sync) signal and tri-level sync supported (BNC x 1)			Panning range	±175°			
	Input level: -10 dBV ± 3 dBV			Tilting range	-30° to 90° ^{*6}			
OUTPUT	Video output	HDMI	HDMI connector * HDCP is not supported. * VIERA Link is not supported.		Quietness	During preset: NC40 or less During manual: NC35 or less		
		3G/HD-SDI OUT	Compliant with the SMPTE424/SMPTTE292M standards/75 Ω (BNC x 1)		[Camera/pan-tilt head control]			
INPUT/OUTPUT	Input/Output connector	LAN	LAN connector for IP control (RJ-45) Equipped with straight/crossover cable auto detection function	FUNCTIONS AND PERFORMANCE	IP connecting cable	When connecting through a hub: LAN cable ^{**} (category 5 or above), max. 100 m (328 ft)		
		RS-232C	Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)			When using a PoE+ hub: LAN cable ^{**} (category 5e or above), max. 100 m (328 ft)		
RS-422	CONTROL IN RS422A (RJ-45)	When a hub is not used: LAN cable ^{**} (category 5 or above), max. 100 m (328 ft)						
USB	Mini-B port	AW protocol connecting cable LAN cable ^{**} (category 5 or above, straight cable), max. 1000 m (3280 ft)						
SD card	microSD card slot	Standard protocol connecting cable Mini DIN 8-pin cable, male						
FUNCTIONS AND PERFORMANCE	[Camera unit]				[SD card recording]			
	Imaging sensors	1/2.3-type MOS			SD card recording	MPEG-4 AVC file standard compliant (MP4)		
	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)]			Video compression format	MPEG-4 AVC/H.264 High Profile		
	Focus	Switching between auto and manual			Audio compression format	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)		
	Focus distance	Entire zooming range: 1.5 m (4.92 ft) Wide end: 10 cm (0.33 ft)			Recording format /Bit rate	59.94 Hz 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),		
	Color separation optical system	On-chip color filter system				50 Hz 1280x720/29.97p (Average 8 Mbps/Average 4 Mbps/Average 2 Mbps/Average 1 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/Average 1 Mbps)		
	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])			[Network]		
		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])			Transfer modes	JPEG 59.94 Hz (30fps/15fps/5fps) ^{*7} , 50 Hz (25fps/12.5fps/5fps) ^{*8}	
	Horizontal resolution	HD: 1000 TV lines Typ (Center area)					H.264 1920x1080, 1280x720, 640x360, 320x180, 59.94 Hz (60fps/30fps/15fps/5fps) ^{*9} , 50 Hz (50fps/25fps/12.5fps/5fps) ^{*8}	
	Gain selection ^{*2}	Auto, 0 dB to 48 dB (3 dB step)				Supported protocol	IPv4 TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTPSPoverTCP, RTPSPoverHTTP, SSL(TLS), MultiCast/UniCast	
	Frame mix ^{*3}	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB					IPv6 TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6(MLD), RTPSPoverTCP, RTPSPoverHTTP, SSL(TLS), MultiCast/UniCast	
	ND filter	Auto ^{*4} , Through, 1/4, 1/16, 1/64				i-OS, Android support	JPEG image display	
	Electronic shutter speed	During Full Auto	1/60 to 1/2000 (Auto Slow Shutter: Off) [59.94 Hz]			ACCESSORIES	Mount bracket for installation surface (Hanging ^{*10} / Desktop): 1	
			1/30 to 1/2000 (Auto Slow Shutter: On) [59.94 Hz]				Drop-prevention wire (already attached to the unit): 1	
	During Auto	1/50 to 1/2000 (Auto Slow Shutter: Off) [50 Hz]			Bracket mounting screws (bind-head) M4 x 10 mm: 4			
1/25 to 1/2000 (Auto Slow Shutter: On) [50 Hz]			Main unit mounting screw (with flat washer, spring washer) M3 x 6 mm: 1					
During Manual	1/60 to 1/2000 [59.94 Hz]			Power cable (1.5 m [4.92 ft]): 1				
	1/50 to 1/2000 [50 Hz]			AC adaptor: 1				
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)				CD-ROM: 1			
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							

* 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 "640x360" or "320x180", 60fps or 50fps cannot be selected for the frame rate.

* 10: To ensure more safety, AW-HE42W/K can be secured by using the direct ceiling mount bracket (WV-Q105A).