



High resolution remote camera

AW-HE40S

Full HD camera with integrated pan-tilt

Key Features

30x optical zoom (10x digital zoom + Digital Extender)

High dynamic range

Video Output: HD-SDI

PoE+ Support

IP connection allows control of up to 100 AW-HE40H/S units by using AW-RP50E & IP Image output function allows Image monitoring by IP connection with a PC

PROFESSIONAL PARTNER LEVEL



AW-HE40S

<https://eu.connect.panasonic.com/en/products/broadcast-proav/aw-he40s>

General	
Power Requirements	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)
Current Consumption	1.2 A (Supplied AC adaptor) 0.4 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 166 mm (6-5/16 inches x 7-41/128 inches x 6-17/32 inches) [excluding protrusions, direct ceiling mount bracket]
Finish	[AW-HE40HWPJ9], [AW-HE40SWPJ9], [AW-HE40HWEJ9], [AW-HE40SWEJ9] Pearl white [AW-HE40HKPJ9], [AW-HE40SKPJ9], [AW-HE40HKEJ9], [AW-HE40SKEJ9] Metallic black
Controller Supported*1	AW-RP50, AW-RP120, AK-HRP200
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 [Line input] Input level: -10 dBV ± 3 dBV
Output	Video output HDMI: [AW-HE40HW/HK] HDMI connector * HDCP is not supported. * VIERA Link is not supported. HD SDI OUT: [AW-HE40SW/SK] Compliant with the 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
FunctionS and Perfomance	
Camera Unit	
Imaging Sensors	1/2.3-type MOS
Lens	Motorized 30x zoom, F1.6 to F4.7 [f=4.3 mm (1 1/64 inches) to 129 mm(5-5/64 inches); 35 mm (1-3/8 inches) equivalent: 31.6 mm (1-31/128 inches)to 962.0 mm (37-7/8 inches)]
Focus	Switching between auto and manual
Focus Distance	Entire zooming range:1.2 m (3.94 ft) Wide end: 10 cm (0.33 ft)
Color Separation Optical System	
Minimum Illumination	59.94 Hz: 0.7 lx (50 IRE, F1.6, 48 dB, 1/60 without accumulation) 0.35 lx (50 IRE, F1.6, 48 dB, 1/30 with accumulation[Frame Mix 6 dB]) 50 Hz: 0.7 lx (50 IRE, F1.6, 48 dB, 1/50 without accumulation) 0.35 lx (50 IRE, F1.6, 48 dB, 1/25 with accumulation[Frame Mix 6 dB])
Horizontal Resolution	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
Electronic Shutter Speed	During Full Auto:1/30 to 1/2000 [59.94 Hz], 1/25 to 1/2000 [50 Hz] During Auto: 1/60 to 1/2000 [59.94 Hz], 1/50 to 1/2000 [50 Hz] DuringManual: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 50 Hz : 50.00 Hz to 570.12 Hz
Gamma	Off, Normal (Low, Mid, High), Cinema
White Balance	AWB A, AWB B, ATW, 3200K,5600K, VAR (2400K to 9900K)
Chroma Amount Variability	±3 step
Scene File	Full Auto, Manual1, Manual2, Manual3
Output Format	HD 1080:59.94i/50i 1080:29.97p/25p 1080:29.97PsF/25PsF 720:59.94p/50p
Synchronization System	Internal synchronization
[USB Connection] * This may vary depending on the operating environment.	
Video Output	USB Video Class Ver1.0
Resolution	1920 x 1080, 1280 x 720, 640 x 360
Frame Rate	max 30 fps (System frequency 59.94 Hz) max 25 fps (System frequency 50 Hz)
Audio Output	USB Audio Class Ver1.0
Supported Models	Devices standardly equipped with a USB 2.0 compatible port
Pan-Tilt Head Unit	
Installation Method	Stand-alone (Desktop) or suspended (Hanging)*4
Pan/Tilt Operation Speed	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s
Panning Range	±175°
Tilting Range	-30° to 90°*5
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*6 (category 5 or above),max. 100 m (328 ft) When using a PoE+ hub: LAN cable*6 (category 5e or above),max. 100 m (328 ft) When a hub is not used: LAN cable*6 (category 5 or above),max. 100 m (328 ft)
AW Protocol Connecting Cable	LAN cable*6 (category 5 or above,straight cable), max. 1000 m (3280 ft)
Standard Protocol Connecting Cable	Mini DIN 8-pin cable, male
SD Card Type	micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher
System Frequency	59.94 Hz/50 Hz
Video Compression Format (SD)	MPEG-4 AVC/H.264 High Profile
Audio Compression Format (SD)	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
SD Card Recording	MPEG-4 AVC file standard compliant (.MP4)
Recording Format	1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p
Network	
Resolution (Network)	JPEG: VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps H.264: 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps
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
iOS, Android Support	JPEG image display

Accessories	Supported protocol Mount bracket for installation surface (Hanging*7 / 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
Note	* 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: To ensure safety, the unit must be secured using the mount bracket supplied. * 5: Depending on the pan or tilt position, the camera may be reflected in the image. * 6: Use of an STP (shielded twisted pair) cable is recommended. * 7: To ensure more safety, AW-HE40 series can be secured by using the direct ceiling mount bracket (WW-Q105A).
