Specifications

GENERAL	Power requirements	DC 12 V (Supplied AC adaptor) DC 42 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 × 186 mm × 166 mm (6-5/16 inches x 7-41/128 inches x 6-17/32 inches) (excluding protrusions, direct ceiling mount bracket)
	Finish	AW-HE40HW / AW-HE40SW: Pearl white AW-HE40HK / AW-HE40SK: Metallic black
	Controller supported*1	AW-RP50, AW-RP120G, AK-HRP200G

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 [Line input] •Input level:−10 dBV ±3 dBV

OUTPUT	Video Output	AW-HE40H HDMI	HDMI connector • HDCP is not supported. • Viera Link is not supported.
		AW-HE40S HD SDI	Compliant with the SMPTE292M standards/75 Ω (BNC x 1)

INPUT/ OUTPUT	Video 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 (Used for maintenance)
		SD card	microSD card slot (Used for maintenance)

FUNCTIONS AND PERFORMANCE	[Camera unit]		
	Imaging sensors		1/2.3-type MOS
	Lens		Motorized 30x zoom, F1.6 to F4.7[f=4.3 mm (11/64 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		On-chip color filter 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

FUNCTIONS AND PERFORMANCE	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] 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 to 660.09 Hz[59.94 Hz] (255 steps) 50.00 Hz to 570.12 Hz[50 Hz] (255 steps)
	Gamma	Off, Normal (Low, Mid, High), Cinema
	White balance	ATW, AWB A, AWB B, 3200K, 5600K, VAR (2400K to 9900K)
	Chroma amount variability	±3 step
	Scene file	Full Auto, Manual1, Manual2, Manual3
	Color bars	FULL BAR
	Output format HD	1080: 59.94p/50p (AW-HE40H only) 1080: 59.94i/50i 1080: 29.97p/25p 1080: 29.97PsF/25PsF 720: 59.94p/50p
	Synchronization system	Internal synchronization
	Image stabilization	Electronic
	[Pan-tilt head unit]	
	Installation method	Stand-alone (Desktop) or suspended (Hanging)*4
	Camera/pan-tilt head control	IP connecting cable When connecting through a hub: • LAN cable*5 (category 5 or above),max. 100 m (328 ft) When using a PoE+ hub: • LAN cable*5 (category 5e or above),max. 100 m (328 ft) When a hub is not used: • LAN cable*5 (category 5 or above),max. 100 m (328 ft) AW protocol connecting cable • LAN cable*5 (category 5 or above,straight cable), max. 1000 m (3280 ft) Standard protocol connecting cable • Mini DIN 8-pin cable, male
	Pan-tilt operation speed	Maximum speed during preset:300°/s Maximum speed during manual:90°/s
	Panning range	±175°
	Tilting range*6	−30° to 90°
	Quietness	During preset: NC40 or less During manual: NC35 or less
	[Network]	
	Image resolution	JPEG VGA (640 x 360), QVGA (320 x 180) Max. 30 fps
	Supported protocol	IPv4: TCP/IP, UDP/IP, HTTP, DHCP, DNS
	i-OS, Android support	JPEG image display

*1: It may be necessary to upgrade the version of the controller in order to support the unit. For the latest information on supported OS/browsers, please refer to "service and support" section on the Panasonic website (http://pro-av.panasonic.net/en/).
*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: Use of an STP (shielded twisted pair) cable is recommended. *6: Depending on the pan or tilt position, the camera may be reflected in the image.
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