



High resolution remote camera

## AW-HE40H

Full HD camera with integrated pan-tilt

### Key Features

1/2, 3-Type MOS & 30x optical zoom

PoE+ Support

High Dynamic Range (HDR) mode

HDMI Video Output Format: 1080/50p, 1080/59,94p, 1080/50i, 1080/59,94i, 1080/25ü, 1080/29,97p, 1080/25psF, 1080/29,97psF, 720/50p, 720/59,94p

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-HE40H

<https://eu.connect.panasonic.com/b/e/en/products/broadcast-proav/aw-he40h>

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|--|---|
| <b>Storage Temperature</b>             | -20 °C to 50 °C (-4 °F to 122 °F)   |
| <b>Allowable Humidity Ranges</b>       | 20 % to 90 % (no condensation)  |
| <b>Mass</b>                            | Approx. 1.5 kg (3.30 lb)  |
| <b>Dimensions (W x H x D)</b>          | 160 mm x 186 mm x 166 mm<br>(6-5/16 inches x 7-41/128 inches x 6-17/32 inches)<br>[excluding protrusions, direct ceiling mount bracket]   |
| <b>Finish</b>                          | [AW-HE40HWPJ9], [AW-HE40SWPJ9], [AW-HE40HWEJ9], [AW-HE40SWEJ9] Pearl white<br>[AW-HE40HKPJ9], [AW-HE40SKPJ9], [AW-HE40HKEJ9], [AW-HE40SKEJ9] Metallic black   |
| <b>Controller Supported*1</b>          | AW-RP50, AW-RP120, AK-HRP200  |
| <b>Input</b>                           |   |
| <b>Power</b>                           | DC 12 V IN, PoE+ (IEEE802.3at standard)   |
| <b>MIC/Line Input</b>                  | Stereo mini-jack (ø3.5 mm)<br>Input impedance: Approx. 2 kΩ (unbalanced)<br>[Mic input]<br>Supported microphones: Stereo mic<br>(plug-in power, on/off switching via menu)<br>Supplied voltage: 2.5 V ± 0.5 V<br>Mic input level: -60 dBV ± 3 dBV<br>[Line input]<br>Input level: -10 dBV ± 3 dBV |
| <b>Output</b>                          |   |
| <b>Video Output</b>                    | HDMI: [AW-HE40HW/HK] HDMI connector<br>* HDCP is not supported. * VIERA Link is not supported.<br>HD SDI OUT: [AW-HE40SW/SK] Compliant with the SMPTE292M standards/75 Ω(BNC x 1)   |
| <b>Input/Output</b>                    |   |
| <b>Input/Output Connector</b>          | LAN:LAN connector for IP control (RJ-45)<br>Equipped with straight/crossover cable auto detection function<br>RS-232C:Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)<br>RS-422:CONTROL IN RS422A (RJ-45)<br>USB:Mini-B port<br>SD card:microSD card slot  |
| <b>FunctionS and Performance</b>       |   |
| <b>Camera Unit</b>                     |   |
| <b>Imaging Sensors</b>                 | 1/2.3-type MOS  |
| <b>Lens</b>                            | Motorized 30x zoom, F1.6 to F4.7<br>[f=4.3 mm (1 1/64 inches) to 129 mm(5-5/64 inches); 35 mm (1-3/8 inches)<br>equivalent: 31.6 mm (1-31/128 inches)to 962.0 mm (37-7/8 inches)]   |
| <b>Focus</b>                           | Switching between auto and manual   |
| <b>Focus Distance</b>                  | Entire zooming range:1.2 m (3.94 ft)<br>Wide end: 10 cm (0.33 ft)   |
| <b>Color Separation Optical System</b> | On-chip color filter system   |
| <b>Minimum Illumination</b>            | 59.94 Hz:0.7 lx (50 IRE, F1.6, 48 dB,1/60 without accumulation)<br>0.35 lx (50 IRE, F1.6, 48 dB,1/30 with accumulation[Frame Mix 6 dB])<br>50 Hz:0.7 lx (50 IRE, F1.6, 48 dB,1/50 without accumulation)<br>0.35 lx (50 IRE, F1.6, 48 dB,1/25 with accumulation[Frame Mix 6 dB])                   |
| <b>Horizontal Resolution</b>           | 1000 TV lines Typ (Center area)   |
| <b>Gain Selection*2</b>                | Auto, 0 dB to 48 dB (3 dB step)   |
| <b>Frame Mix*3</b>                     | Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB  |
| <b>Electronic Shutter Speed</b>        | During: 1/30 to 1/2000 [59.94 Hz]<br>Full Auto: 1/25 to 1/2000 [50 Hz]<br>During Auto: 1/60 to 1/2000 [59.94 Hz], 1/50 to 1/2000 [50 Hz]<br>During: 1/100, 1/250, 1/500, 1/1000, 1/2000,<br>Manual: 1/4000, 1/10000 [59.94 Hz], 1/120, 1/250, 1/500, 1/1000, 1/2000,1/4000, 1/10000 [50 Hz]       |

|   |   |
|---|---|
| <b>Synchro Scan</b>   | 59.94 Hz : 59.94 Hz to 660.09 Hz<br>50 Hz : 50.00 Hz to 570.12 Hz   |
| <b>Gamma</b>  | Off, Normal (Low, Mid, High), Cinema  |
| <b>White Balance</b>  | AWB A, AWB B, ATW, 3200K,5600K, VAR (2400K to 9900K)  |
| <b>Chroma Amount Variability</b>  | ±3 step   |
| <b>Scene File</b>   | Full Auto, Manual1, Manual2, Manual3  |
| <b>Output Format</b>  | HD<br>1080:59.94p/50p*4<br>1080:59.94i/50i<br>1080:29.97p/25p<br>1080:29.97PsF/25PsF<br>720:59.94p/50p  |
| <b>Synchronization System</b>   | Internal synchronization  |
| <b>[USB Connection] * This may vary depending on the operating environment.</b> |   |
| <b>Video Output (USB Connection)</b>  | USB Video Class Ver1.0  |
| <b>Video Compression Format</b>   | Motion JPEG   |
| <b>Resolution</b>   | 1920 x 1080, 1280 x 720, 640 x 360  |
| <b>Frame Rate</b>   | max 30 fps (System frequency 59.94 Hz)<br>max 25 fps (System frequency 50 Hz)   |
| <b>Audio Output</b>   | USB Audio Class Ver1.0  |
| <b>Audio Compression Format</b>   | Linear PCM, 48 kHz, 16-bit, 2 channels  |
| <b>Supported Models</b>   | Devices standardly equipped with a USB 2.0 compatible port  |
| <b>Pan-Tilt Head Unit</b>   |   |
| <b>Installation Method</b>  | Stand-alone (Desktop) or suspended (Hanging)*5  |
| <b>Pan/Tilt Operation Speed</b>   | Maximum speed during preset: 300°/s<br>Maximum speed during manual: 90°/s   |
| <b>Panning Range</b>  | ±175°   |
| <b>Tilting Range</b>  | -30° to 90°*6   |
| <b>Quietness</b>  | During preset: NC40 or less<br>During manual: NC35 or less  |
| <b>Camera/Pan-Tilt Head Control</b>   |   |
| <b>IP Connecting Cable</b>  | When connecting through a hub:<br>LAN cable*7 (category 5 or above),max. 100 m (328 ft)<br>When using a PoE+ hub:<br>LAN cable*7 (category 5e or above),max. 100 m (328 ft)<br>When a hub is not used:<br>LAN cable*7 (category 5 or above),max. 100 m (328 ft)   |
| <b>AW Protocol Connecting Cable</b>   | LAN cable*7 (category 5 or above,straight cable), max. 1000 m (3280 ft)   |
| <b>Standard Protocol Connecting Cable</b>                                       | Mini DIN 8-pin cable, male  |
| <b>SD Card Type</b>   | micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher  |
| <b>System Frequency</b>   | 59.94 Hz/50 Hz  |
| <b>Video Compression Format (SD)</b>  | MPEG-4 AVC/H.264 High Profile   |
| <b>Audio Compression Format (SD)</b>  | AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)   |
| <b>SD Card Recording</b>  | MPEG-4 AVC file standard compliant (.MP4)   |
| <b>Recording Format</b>   | 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p,<br>1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p,<br>1280 x 720/29.97p, 1280 x 720/25p  |
| <b>Network</b>  |   |
| <b>Resolution (Network)</b>   | JPEG:<br>VGA (640 x 360), QVGA (320 x 180) max.30 fps<br>1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps<br>H.264:<br>1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps   |
| <b>Supported Protocol</b>   | IPv4:<br>TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,<br>DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSP<br>RTSPoverHTTP, SSL(TLS), MultiCast/UniCast<br>IPv6:<br>TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS,<br>NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast |
| <b>iOS, Android Support</b>   | JPEG image display  |

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**Accessories**

Mount bracket for installation surface (Hanging\*8 / 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

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**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: AW-HE40HW/HK only

\* 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: To ensure more safety, AW-HE40 series can be secured by using the direct ceiling mount bracket (WV-Q105A).