

Panasonic

BUSINESS

AW-HE40SW/SK [SDI Model]
AW-HE40HW/HK [HDMI Model]
HD Integrated PTZ Camera

For indoor use



AW-HE40SW/AW-HE40HW



Features 30x optical zoom lens
and support for PoE+*
for outstanding operability
and installation flexibility



AW-HE40SK/AW-HE40HK

*Abbreviation of Power over Ethernet Plus.



Full HD camera with integrated pan-tilt for lectures, meetings and a wide variety of applications.

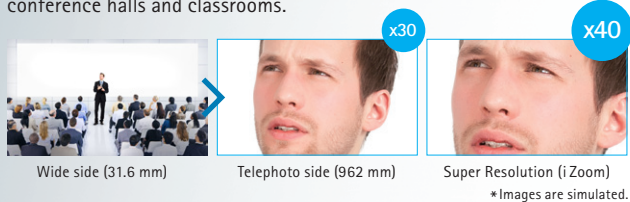
The AW-HE40 series of integrated full HD cameras performs in a wide variety of onsite shooting applications that require high-quality video, such as conferences, lecture capture and other events, thanks to its high-performance zoom, wide angle of view and outstanding color reproducibility. In addition to IP video transmission, support for PoE*1 enables power to be supplied via a LAN cable*2. The result is installation flexibility. It also supports HD-IP video output, output of video and audio via USB, and SD card recording.

Developed 1/2.3-type MOS Sensor

Equipped with a developed 1/2.3-type MOS sensor and DSP (Digital Signal Processor) for high sensitivity and high resolution.

High Performance Optical 30x Zoom Lens/ Super Resolution 40x Zoom

In addition to a 30x optical zoom, the AW-HE40 series can zoom up to 40x while maintaining high resolution thanks to Super Resolution technology. It also features a 16x digital zoom*3 and a 1.4x digital extender, which enables the AW-HE40 series to shoot in large conference halls and classrooms.



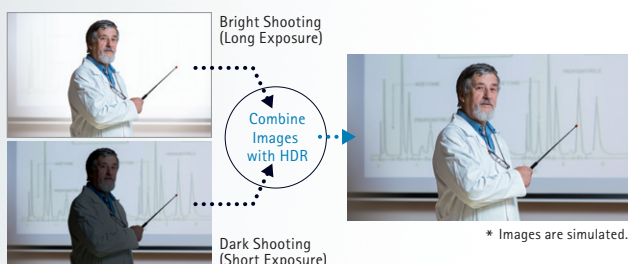
Night Mode (supports automatic switching)

Switching to Night Mode makes shooting possible even in low light conditions in which shooting is normally difficult, such as when observing wildlife*4. The AW-HE40 series can also be set to switch to the mode automatically depending on surrounding light levels.



Equipped with High Dynamic Range (HDR) Mode

In addition to conventional Dynamic Range Stretch (DRS) and Digital Noise Reduction (DNR), the AW-HE40 series are newly equipped with High Dynamic Range (HDR) mode. When shooting and synthesizing two images with differing exposure times, the AW-HE40 series can create video with high visibility that corrects for halation and black defects even under backlit conditions.



Outputs Still Image During Preset Movements; Supports One-Camera Operations

The new Freeze During Preset function enables to freeze the video during preset playback. The immediately preceding still image is output during preset movements so that the swiveling movement is not displayed, making operations possible with one camera.

With Freeze During Preset function OFF and ON



Either SDI Model or HDMI Model Can Be Selected To Match Usage Needs

Supports 1080/59.94p (HDMI model only), 29.97p*5, 59.94i, 29.97PsF, 1080/50p (HDMI model only), 25p*5, 50i, 25PsF, 720/59.94p, and 50p video formats. Flexible operation in line with the application is made possible by a lineup that includes an SDI output model (AW-HE40SW/SK), optimal for video content production, and an HDMI output model (AW-HE40HW/HK), optimal for video streaming, both of which come in two body colors (white and black) that can be selected depending on the usage environment.

Video/Audio Output with USB

USB Video Class and USB Audio Class are supported. This enables video and audio output via USB so the cameras can be used as high-image-quality Web cameras for Web conferencing, distance learning, and other applications utilizing communication software.

Audio Input Function

The AW-HE40 series also supports audio input, embedding and encoding. Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the original AW-HE40 series can be switched ON/OFF and an equalizer function can be used. By reducing low-frequency sound from air conditioners, projectors, and other devices, it is possible to emphasize and increase the clarity of the spoken words.

*1: Abbreviation of Power over Ethernet Plus. *2: The software for the AW-HE40 series may need to be updated depending on the existing software version. For details, see the Panasonic website (<https://pro-av.panasonic.net/>). *3: Picture quality is lower with the digital zoom. *4: Video output is monochrome. *5: Native output.

microSD Card Recording Function

MicroSD card recording is supported. Camera video and audio can be recorded in MP4 format on microSD card (sold separately) inserted into the unit. In addition, using an IP network, it is possible to externally control recording start/stop and download the recorded files.



Full HD Video Output Via IP Transmission

In addition to HD-SDI and HDMI output, production quality full HD video output via IP transmission is supported. The camera delivers up to four channels of IP streaming video (H.264), with a maximum quality level of 1080/60p at 24 Mbps*1. Simultaneous transmission to as many as 14 devices is also supported*2. Flexible system setup is possible to meet various application needs.



List of Supported Multi-Streaming Outputs (When IP output priority is selected)*

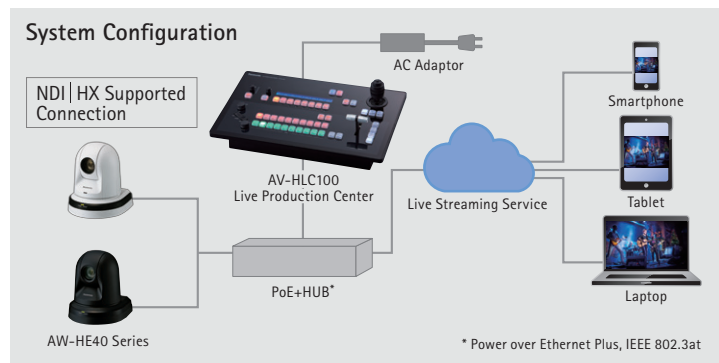
Settings	H.264			JPEG
	CH1	CH2*3	CH3*3/CH4*4	CH1/CH2/CH3
Resolution	1920x1080 1280x720*3 640x360*5	1280x720 640x360 320x180	1280x720 640x360 320x180	1920x1080*4 1280x720*3 640x360 320x180*3
Frame rate	59.94 Hz 60 fps/30 fps/15 fps/5 fps 50 Hz 50 fps/25 fps/12.5 fps/5 fps	30 fps/15 fps/5 fps 25 fps/12.5 fps/5 fps	30 fps/15 fps/5 fps 25 fps/12.5 fps/5 fps	30 fps/15 fps/5 fps 25 fps/12.5 fps/5 fps
Bit rate	Up to 24 Mbps			
Voice transmission	Yes (AAC48 kHz)			
PoE+	Yes			

* Depending on the output mode, certain restrictions apply.

NDI|HX Compatibility for Excellent Video Streaming Quality

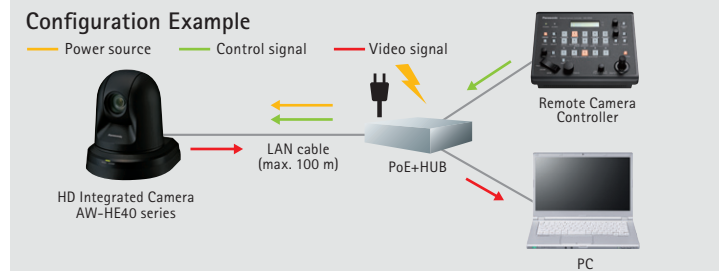
The AW-HE40 series can be upgraded to an NDI|HX compatible model if purchasing a license from the NewTek website (https://pro-av.panasonic.net/en/ndihx_support/index.html). Highly efficient NDI|HX compatibility enables excellent broadcast streaming by encoding and transmitting high-quality video in real time. This technology eliminates the need for IP decoders, allowing input to be sent directly to the switcher.

* Contact your local Panasonic vendor for further information.



Supporting PoE+*6 for Lower Installation Costs

By connecting network devices that support the IEEE802.3at PoE+ standard, power can be supplied via LAN cable. Since it is not necessary to install a power supply or even a local AC outlet, installation costs can be significantly reduced.

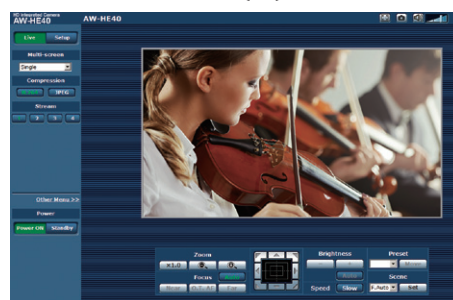


IP Control with Image Monitoring Using PC, Mac and Mobile Terminals

Using an IP browser, the camera can be controlled from a remote location, and IP video monitoring and remote camera control can be performed from a PC, Mac or mobile terminal such as an iPhone, iPad or Android device, enabling easy operations. IP video*7 can be transmitted to up to 14 terminals*1.

*For the latest information on supported OS/browsers, please refer to the "service and support" section on the Panasonic website (<https://pro-av.panasonic.net/>).

Camera Control Screen (PC)



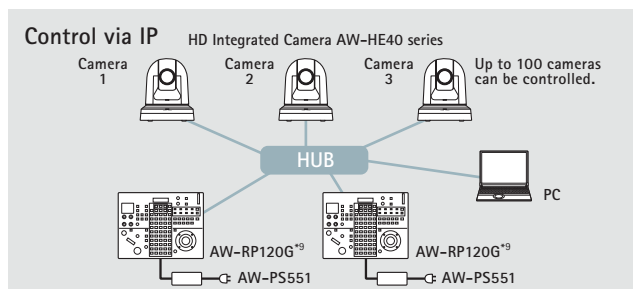
Live Screen

Mobile Terminal Screen



Flexible IP Control Architecture Simplifies System Design and Operation*8

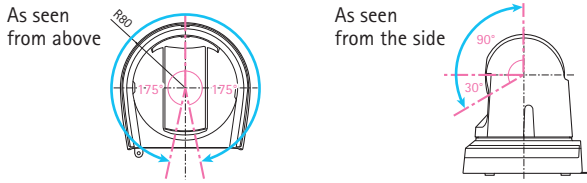
Up to 100 x AW-HE40 series cameras can be controlled via IP from a single AW-RP120G/RP50 or PC. An AW-HE40 series can also be simultaneously controlled by up to five AW-RP120G/RP50 controllers via IP.



*1: 1920 x 1080 60 fps output is 1ch display only. For 2ch or more, display is max. 30 fps. Also, JPEG output is up to 3ch. *2: Depends on your network environment. *3: Settable when HDR is "Off". *4: Settable when HDR is set to "Off" and the frame rate is other than 60fps (or 50fps). *5: Not settable when HDR is "Off". *6: Abbreviation of Power over Ethernet Plus. *7: Supports only SD video output. *8: Controller upgrade required. For details, please refer to the "service and support" section on the Panasonic website (<https://pro-av.panasonic.net/>). *9: AC adaptor AW-PS551 (sold separately) is required for AW-RP120G.

Exceptional Pan-tilt Performance for Smooth Shooting Over a Wide Area*1

The pan range of $\pm 175^\circ$ and the tilt range of -30° to $+90^\circ$ cover a wide shooting area*1. Pan and tilt operate at a maximum speed of $90^\circ/\text{second}$ and respond quickly to remote control operation. They operate quietly at a sound level of NC35 or lower.

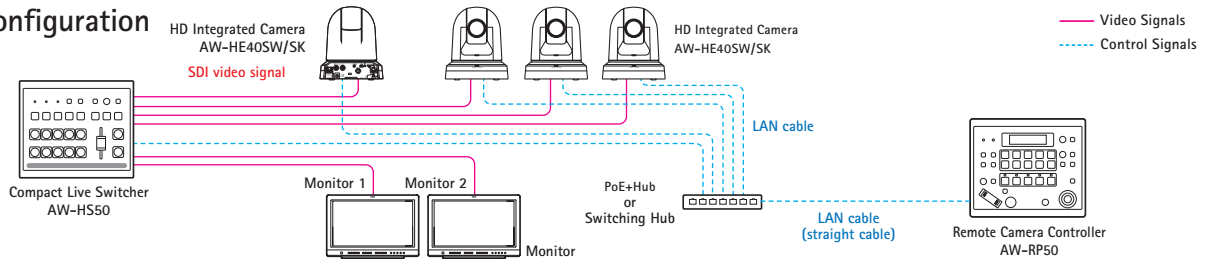


*1. Depending on the position of the pan and tilt, the unit itself may be reflected in the image.

Other Functions

- Preset memory up to 100 positions.
- Functions such as freeze during preset, digital extender zoom and color temperature settings can be assigned to the user buttons on Panasonic controllers.
- Equipped with RS422 remote terminal; up to five units can be controlled via serial control from a controller.
- Equipped with RS232C remote terminal (standard serial communication support). Up to seven units can be controlled via daisy chain connection.
- Up to four units can be operated with a wireless remote controller (AW-RM50G sold separately).
- Easy installation thanks to use of turn-lock mechanism.

System Configuration Example



* The AC adaptor provided with the unit is not shown in the above figure. * SDI output supported only by AW-HE40SW/SK.
* The camera unit automatically recognizes straight cables and cross cables connected to the LAN terminal.

Optional Software

Supporting Lecture Capture with Auto Tracking function

Auto Tracking Software Key
AW-SF100/AW-SF200
2 Additional Licenses AW-SF202
3 Additional Licenses AW-SF203

A 30-day Free Trial is Available



AW-SF200 Main View

(Main Features)

- Motion detection and face detection technologies using video streaming from camera achieve smooth auto tracking regardless of where the person is facing.
- GUI designed for intuitive operation.
- Operation with IP connection enables installation/control of cameras in remote classroom.
- AW-SF100 allows a single PTZ camera to be controlled on either a stand-alone or web application version.
- The stand-alone version is easy to set up by installing software on a PC*2 and connecting HD integrated cameras; Installation of sensors and other devices are not necessary.
- The web application version enables camera control from a tablet, smartphone, desktop PC, etc.
- AW-SF200 enables simultaneous auto tracking and centralized control of multiple cameras.*3

*2: When the web application version is used, Auto Tracking Software needs to be installed on an HTTP server.

*3: Up to four cameras per server can be controlled simultaneously.

● The face recognition function is based upon the face recognition software developed by PUX Corporation. * Depending on the shooting environment, the system may not be able to detect or track the target correctly. Please use this software in an environment where the adjustment work can be performed by the operator to deal with errors in detection and auto tracking. * There is a 30-day free trial available for the Auto Tracking Software. Please read carefully the precautions for this software and check if it works correctly in your operating environment before you purchase "Auto Tracking Software Activation Key". For further information, please see "Software Download" on the Panasonic website <<https://pro-av.panasonic.net/>>.

PTZ Control Center

Free Software

- Intuitive GUI with the capability to control multiple cameras.
- Image quality adjustment and pan-tilt-zoom control on a GUI.
- Easy to recall presets by clicking preset buttons with thumbnails.



Main View

PTZ Virtual USB Driver

Free Software

- High quality video perfect for web conferencing, utilizing a PTZ camera on the network as a USB camera.
- Automatic detection of connected cameras, and network settings supported.

* For further information on the optional software, please see "Software Download" on the Panasonic website <<https://pro-av.panasonic.net/>>.

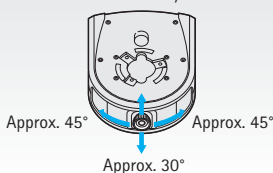
Easy Wireless Control Using an iPad*4 with a Control Assist Camera*5



Control Assist Camera
AW-HEA10W

Range of lens movement

This is adjustable 30° vertically and 45° horizontally.



Control Assist Camera
AW-HEA10K

Usage example

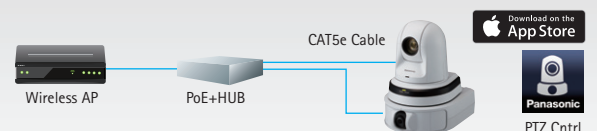
4K/HD Integrated Camera video
Control Assist Camera video



- Used in combination with a 4K/HD Integrated Camera*5.
- 95° wide-angle view from the Control Assist Camera is displayed on an iPad.
- Tapping the desired area of the wide-angle view displayed on the iPad*4 turns the field of view of the 4K/HD Integrated Camera*5 to the tapped position.

*4: An iPad (sold separately) and a wireless AP (sold separately) are required. Please install the iPad application "PTZ Cntrl" (free). For details, please visit Panasonic AW-HEA10W/K website (https://pro-av.panasonic.net/en/sales_o/camera/aw-hea10/).

*5: AW-HE130/HN130 series, AW-UE70/UN70 series, AW-HE40/HN40 series, and AW-HE38/HN38 series only.



The iPad application "PTZ Cntrl" can be downloaded for free from the App Store. This application enables control of pan, tilt, zoom, focus, iris and gain. For details, please visit the Panasonic AW-HEA10W/K product site (https://pro-av.panasonic.net/en/sales_o/camera/aw-hea10/).

Specifications

As of April, 2018

GENERAL	Power requirements	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)	Chroma amount variability	±3 step	
	Current consumption	1.2 A (Supplied AC adaptor) 0.4 A (PoE+ power supply)	Scene file	Full Auto, Manual1, Manual2, Manual3	
	Ambient operating temperature	0 °C to 40 °C (32 °F to 104 °F)	Output format	HD 1080:59.94p/50p*4 1080:59.94i/50i 1080:29.97p/25p 1080:29.97p/25pSF 720:59.94p/50p	
	Storage temperature	-20 °C to 50 °C (-4 °F to 122 °F)	Synchronization system	Internal synchronization	
	Allowable humidity ranges	20 % to 90 % (no condensation)	[USB connection]	* This may vary depending on the operating environment.	
	Mass	Approx. 1.5 kg (3.30 lb)	Video output	USB Video Class Ver1.0	
	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]	Video compression format	Motion JPEG	
	Finish	[AW-HE40HWPJ9], [AW-HE40SWPJ9], [AW-HE40HWEJ9], [AW-HE40SWEJ9] Pearl white [AW-HE40HKPJ9], [AW-HE40SKPJ9], [AW-HE40HKEJ9], [AW-HE40SKEJ9] Metallic black	Resolution	1920 x 1080, 1280 x 720, 640 x 360	
Controller supported*1	AW-RP120G, AW-RP50, AK-HRP200G, AK-HRP1000G, AK-HRP1005GJ	Frame rate	max 30 fps (System frequency 59.94 Hz) max 25 fps (System frequency 50 Hz)		
INPUT	Power	DC 12 V IN, PoE+ (IEEE802.3at standard)	Audio output	USB Audio Class Ver1.0	
	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	Audio compression format	Linear PCM, 48 kHz, 16-bit, 2 channels	
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)	Supported models	Devices standardly equipped with a USB 2.0 compatible port	
	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	[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	
FUNCTIONS AND PERFORMANCE	[Camera unit]		[Camera/pan-tilt head control]		
	Imaging sensors	1/2.3-type MOS	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)	
	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)]	AW protocol connecting cable	LAN cable*7 (category 5 or above, straight cable), max. 1000 m (3280 ft)	
	Focus	Switching between auto and manual	Standard protocol connecting cable	Mini DIN 8-pin cable, male	
	Focus distance	Entire zooming range: 1.2 m (3.94 ft) Wide end: 10 cm (0.33 ft)	[SD card recording]		
	Color separation optical system	On-chip color filter system	SD card type	micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher	
	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]	System frequency	59.94 Hz/50 Hz
		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]	Video compression format	MPEG-4 AVC/H.264 High Profile
	Horizontal resolution	1000 TV lines Typ (Center area)	Audio compression format	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)	
	Gain selection*2	Auto, 0 dB to 48 dB (3 dB step)	SD card recording	MPEG-4 AVC file standard compliant (.MP4)	
	Frame mix*3	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB	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	
	Electronic shutter speed	During	1/30 to 1/2000 [59.94 Hz] Full Auto 1/25 to 1/2000 [50 Hz]	[Network]	
		During Auto	1/60 to 1/2000 [59.94 Hz] 1/50 to 1/2000 [50 Hz]	Resolution	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
	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]		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
		Synchro scan	59.94 Hz : 59.94 Hz to 660.09 Hz 50 Hz : 50.00 Hz to 570.12 Hz	i-OS, Android support	JPEG image display
Gamma	Off, Normal (Low, Mid, High), Cinema		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	
White balance	AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K)				

*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, 18 dB and 24 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).

Required personal computer environment

As of April, 2018

CPU	When using 1080/60p [59.94 Hz] and 1080/50p [50 Hz] Intel® Core™ i7 3.4 GHz or higher recommended Other than above Intel® Core™ i7 3.4 GHz or higher recommended
Memory	For Windows 1 GB or higher (2 GB or higher for Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7 64-bit edition) For Mac 2 GB or more
Network function	10BASE-T or 100BASE-TX port x 1
Image display function	Resolution: 1024 x 768 pixels or more Color generation: True Color 24-bit or more
Supported operating system and Web browser	Windows Microsoft® Windows® 8.1 Pro 64-bit/32-bit*9 Windows® Internet Explorer® 11.0*9 Microsoft® Windows® 8 Pro 64-bit/32-bit*9 Windows® Internet Explorer® 10.0*9 Microsoft® Windows® 7 Professional SP1 64-bit/32-bit*10 Windows® Internet Explorer® 8.0 / 9.0 / 10.0 / 11.0*11 Mac OS X 10.8 Safari 6.2 / OS X 10.9 Safari 7.1 / OS X 10.10 Safari 8.0 iPhone / iPad / iPod touch iOS 8.3 Standard browser Android Android OS 4.4 Standard browser
Other	CD-ROM drive (for using the Operating Instructions and various software) Adobe® Reader® (for viewing the Operating Instructions on the CD-ROM)

*9: Use the desktop version of Internet Explorer. (Internet Explorer for Windows UI is not supported.) *10: Windows® XP compatibility mode is not supported.
*11: The 64-bit version of Internet Explorer® is not supported.

For the latest information on supported OS/browser, please refer to the "service and support" on the Panasonic website (<https://pro-av.panasonic.net>).

- Microsoft®, Windows®, Windows® 7, Windows® 8, Windows® 8.1 and Internet Explorer® are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
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- Android™ is a trademark of Google Inc.

Rear View

AW-HE40SW/SK

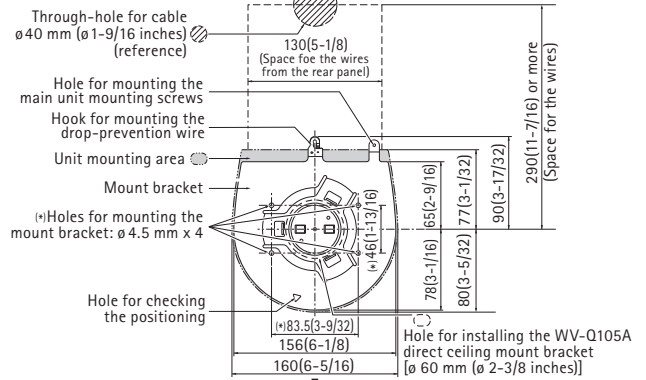


AW-HE40HW/HK



Bottom View

Unit: mm(inches)



The front panel of the unit on this side.

System Camera Options

As of April, 2018

<p>Live Production Center AV-HLC100</p> 	<p>Control Assist Camera AW-HEA10W/K</p> 	<p>Remote Camera Controller AW-RP50</p> 
<p>Wireless Remote Control AW-RM50G <small>("AA", "R6" or "LR6" battery x 2 are not included.)</small></p> 	<p>Remote Camera Controller AW-RP120G <small>(AC adaptor (DC12 V) is required separately.)</small></p> 	<p>Remote Operation Panel AK-HRP200G <small>(AC adaptor (DC12 V) is required separately.)</small></p> 
	<p>Compact Live Switcher AW-HS50</p> 	<p>Direct Ceiling Mount Bracket WV-Q105A</p> 

For more information, please visit Panasonic web site



<https://pro-av.panasonic.net/>

*Specifications are subject to change without notice.

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Factories of AVC Networks Company have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)