

Panasonic

BUSINESS

AW-HE40SW/SK [SDI Model]
AW-HE40HW/HK [HDMI Model]

HD Integrated Camera

AW-SFU01G
Feature Upgrade



AW-HE40SW/AW-HE40HW
Suspended (Hanging) style

For indoor use

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



AW-HE40SK/AW-HE40HK
Stand-alone (Desktop) style

For indoor use

* 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. The result is installation flexibility. Adding the optional Feature Upgrade AW-SFU01G gives support for HD-IP video output, output of video and audio via USB, and SD card recording.

Newly Developed 1/2.3-type MOS Sensor

Equipped with a newly 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*2 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)

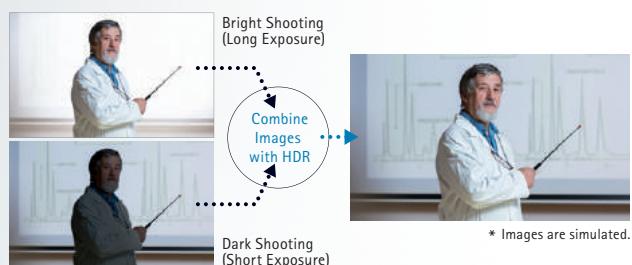
Switching to Night Mode makes shooting possible even in low light conditions in which shooting is normally difficult, such as when observing wildlife*3.

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 is 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 enabled 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*4, 59.94i, 29.97PsF, 1080/50p (HDMI model only), 25p*4, 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*5 **AW-SFU01G**

With the Feature Upgrade AW-SFU01G (optional), 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 **AW-SFU01G**

The AW-HE40 series also supports audio input, embedding and encoding.

By adding AW-SFU01G, 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*5.

* 1: Abbreviation of Power over Ethernet Plus. * 2: Picture quality is lower with the digital zoom. * 3: Video output is monochrome. * 4: Native output.
* 5: When the optional AW-SFU01G is used.

microSD Card Recording Function*1 AW-SFU01G

With the AW-SFU01G (optional), 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*1

AW-SFU01G

In addition to HD-SDI and HDMI output, production quality full HD video output via IP transmission is supported with the AW-SFU01G. The camera delivers up to four channels of IP streaming video (H.264), with a maximum quality level of 1080/60p at 24 Mbps*2. Simultaneous transmission to as many as 14 devices is also supported*3. Flexible system setup is possible to meet various application needs.



Transmit IP Video Without a Separate Encoder Reduces Cost and Simplifies Installation*1

AW-SFU01G

There is no need for the separate encoder normally required when streaming video and audio via IP. Systems can be built with exceptional cost/performance benefits.

Supporting PoE+*7 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 AW-SFU01G

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*8 can be transmitted to up to five terminals*2 per camera, or transmitted to up to 14 terminals*1*2 with the addition of AW-SFU01G.

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

Flexible IP Control Architecture Simplifies System Design and Operation*9

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's via IP.

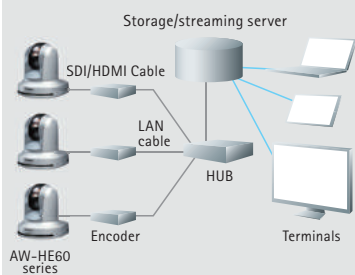
List of Supported Multi-Streaming Outputs (When IP output priority is selected*)

Settings	H.264				JPEG
	CH1	CH2*4	CH3*4/CH4*5	CH1/CH2/CH3	CH1/CH2/CH3
Resolution	1920x1080/ 1280x720*4/ 640x360*6	1280x720/ 640x360/ 320x180	1280x720/ 640x360/ 320x180	1920x1080*5/ 1280x720*4/ 640x360/ 320x180*4	1920x1080*5/ 1280x720*4/ 640x360/ 320x180*4
Frame rate	59.94 Hz	5 fps/ 15 fps/ 30 fps/ 60 fps	5 fps/15 fps/30 fps	5 fps/15 fps/30 fps	5 fps/15 fps/30 fps
	50 Hz	5 fps/ 12.5 fps/ 25 fps/ 50 fps	5 fps/12.5 fps/25 fps	5 fps/12.5 fps/25 fps	5 fps/12.5 fps/25 fps
Bit rate	Up to 24 Mbps				
Voice transmission	Yes (AAC48 kHz)				
PoE+	Yes				

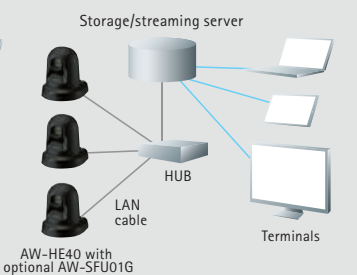
* Depending on the output mode, certain restrictions apply.

Lecture Capture/Streaming System Example

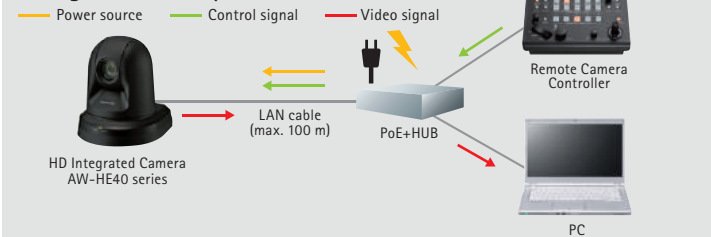
● When used with cameras with only SDI/HDMI output



● When used with cameras capable of IP video output



Configuration Example



Camera Control Screen (PC)



Live Screen

Mobile Terminal Screen

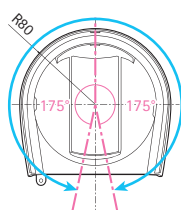


*1: When the optional AW-SFU01G is used. *2: 1920 x 1080 60 fps output is 1ch display only. For 2ch or more, display is max. 30 fps. Also, JPEG output is up to 3ch. *3: Depends on your network environment. *4: Settable when HDR is "Off". *5: Settable when HDR is set to "Off" and the frame rate is other than 60fps (or 50fps). *6: Not settable when HDR is "Off". *7: Abbreviation of Power over Ethernet Plus. *8: Supports only SD video output. *9: Controller upgrade required. For details, please refer to the "service and support" section on the Panasonic website (<http://pro-av.panasonic.net/>).

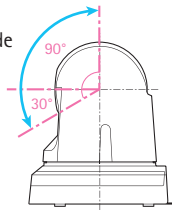
Exceptional Pan-tilt Performance for Smooth Shooting Over a Wide Area*1

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.

As seen
from above



As seen
from the side

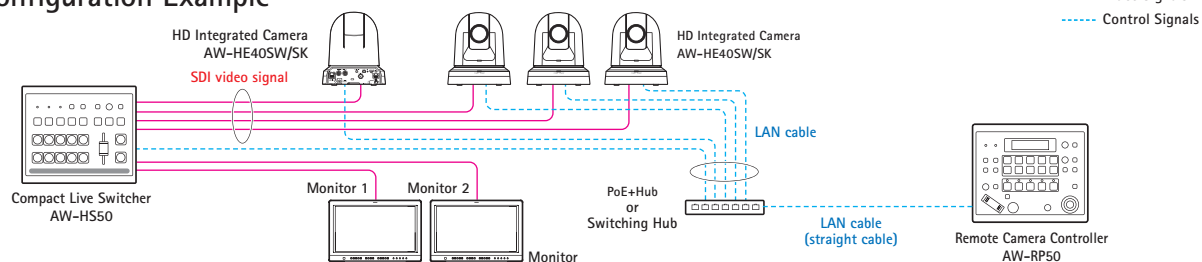


*1. Depending on the position of the pan and tilt, the unit itself may be reflected in the image.

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 That Adds Extra Functionality to The AW-HE40 Series



Feature Upgrade
AW-SFU01G

(Main functions added)

- Added HD-IP video output function enables IP transmission of full-HD video output and multi-streaming output.
- Added USB Video Class and USB Audio Class enable video and audio output via USB.
- Added microSD card recording function enables recording on a 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.

*For information on the purchase of the optional software, please see Panasonic website (<http://pro-av.panasonic.net/en/>) "Software Download."

Easy Wireless Control Using an iPad with a Control Assist Camera*3.



Control Assist Camera
AW-HEA10W



Control Assist Camera
AW-HEA10K

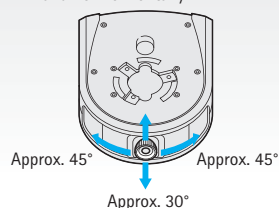
- Used in combination with an HD Integrated Camera*3.
- 95° wide-angle view from the Control Assist Camera is displayed on an iPad.
- Tapping the desired area of the wide-angle view displayed on the iPad*2 turns the field of view of the HD Integrated Camera*3 to the tapped position.
- HD Integrated Camera*3 pan, tilt, and zoom can be easily controlled from an iPad.
- Up to 9 preset positions can be registered.

*2: 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 (http://pro-av.panasonic.net/en/sales_o/camera/aw-hea10/).

*3: AW-HE130W/K, AW-HE40 series, and AW-HE60 series only. When used with the AW-HE60 series, in some cases an AW-HE60 series software upgrade will be necessary.

Range of lens movement

This is adjustable 30° vertically and 45° horizontally.

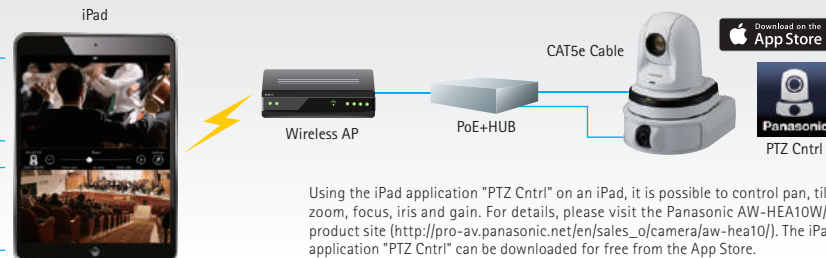


Usage example

HD Integrated Camera
video

Control Assist Camera
video

Images simulated



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

Specifications

As of July, 2015

GENERAL	Power requirements		DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)	FUNCTIONS AND PERFORMANCE	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 1080:29.97PsF/25PsF 720:59.94p/50p
	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)		Synchronization system		Internal synchronization
	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]		[USB connection]		* This may vary depending on the operating environment.
	Finish		[AW-HE40HWP], [AW-HE40SWP],[AW-HE40HWE], [AW-HE40SWE] Pearl white [AW-HE40HKP], [AW-HE40SKP],[AW-HE40HKE], [AW-HE40SKE] Metallic black		Video output		USB Video Class Ver1.0*5
Controller supported*1		AW-RP50, AW-RP120, AK-HRP200	Video compression format		Motion JPEG		
INPUT	Power		DC 12 V IN, PoE+ (IEEE802.3at standard)	Resolution		1920 x 1080, 1280 x 720, 640 x 360	
	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		Frame rate		max 30 fps (System frequency 59.94 Hz) max 25 fps (System frequency 50 Hz)	
				Audio output		USB Audio Class Ver1.0*5	
				Audio compression format		Linear PCM, 48 kHz, 16-bit, 2 channels	
		Supported models		Devices standardly equipped with a USB 2.0 compatible port			
OUTPUT	Video output	HDMI	[AW-HE40H] HDMI connector * HDCP is not supported. * VIERA Link is not supported.	[Pan-tilt head unit]			
		HD SDI OUT	[AW-HE40S] Compliant with the SMPTE292M standards/75 Ω (BNC x 1)	Installation method		Stand-alone (Desktop) or suspended (Hanging)*6	
	INPUT/ OUTPUT	LAN	LAN connector for IP control (RJ-45) Equipped with straight/crossover cable auto detection function	Pan/tilt operation speed		Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s	
		RS-232C	Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)	Panning range		±175°	
RS-422		CONTROL IN RS422A (RJ-45)	Tilting range		−30° to 90°*7		
USB		Mini-B port	Quietness		During preset: NC40 or less During manual: NC35 or less		
SD card		microSD card slot	[Camera/pan-tilt head control]				
[Camera unit]				FUNCTIONS AND PERFORMANCE	IP connecting cable	When connecting through a hub: LAN cable*8(category 5 or above),max. 100 m (328 ft) When using a PoE+ hub: LAN cable*8 (category 5e or above),max. 100 m (328 ft) When a hub is not used: LAN cable*8 (category 5 or above),max. 100 m (328 ft)	
Imaging sensors		1/2.3-type MOS	AW protocol connecting cable			LAN cable*8 (category 5 or above,straight cable), max. 1000 m (3280 ft)	
Lens		Motorized 30x zoom, F1.6 to F4.7 [f=4.3 mm (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)]	Standard protocol connecting cable			Mini DIN 8-pin cable, male	
Focus		Switching between auto and manual	[SD card recording]*5				
Focus distance		Entire zooming range:1.2 m (3.94 ft) Wide end: 10 cm (0.33 ft)	SD card type		micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher		
Color separation optical system		On-chip color filter system	System frequency		59.94 Hz/50 Hz		
FUNCTIONS AND PERFORMANCE	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])		Video compression format		MPEG-4 AVC/H.264 High Profile
		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])		Audio compression format		AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
	Horizontal resolution		1000 TV lines Typ (Center area)		SD card recording		MPEG-4 AVC file standard compliant (.MP4)
	Gain selection*2		Auto, 0 dB to 48 dB (3 dB step)		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
Frame mix*3		Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB	[Network]				
Electronic shutter speed	During Full Auto	1/30 to 1/2000 [59.94 Hz] 1/25 to 1/2000 [50 Hz]	Resolution		JPEG VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080*5, 1280 x 720*5, 640 x 360*5, 320 x 180*5 max.30 fps H.264*5 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps		
		1/60 to 1/2000 [59.94 Hz] 1/50 to 1/2000 [50 Hz]	Supported protocol		IPv4 TCP/IP, UDP/IP, HTTP, HTTPS*5, RTSP*5, RTP*5, RTP/RTCP*5, FTP*5, DHCP, DNS, NTP*5, IGMP*5, UPnP*5, ICMP*5, ARP, RTSPoverTCP*5, RTSPoverHTTP*5, SSL(TLS)*5, MultiCast/UniCast*5 IPv6*5 TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast		
	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]	i-OS, Android support		JPEG image display		
		Synchro scan			59.94 Hz : 59.94 Hz to 660.09 Hz 50 Hz : 50.00 Hz to 570.12 Hz	Mount bracket for installation surface (Hanging*3 / 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	
Gamma		Off, Normal (Low, Mid, High), Cinema	ACCESSORIES				
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 and 18 dB are available for Auto F.Mix Max Gain setting. *4: AW-HE40H only *5: When the network function expansion software AW-SFU01G (optional) is used.
*6: To ensure safety, the unit must be secured using the mount bracket supplied. *7: Depending on the pan or tilt position, the camera may be reflected in the image.
*8: Use of an STP (shielded twisted pair) cable is recommended. *9: To ensure more safety, AW-HE40S/H can be secured by using the direct ceiling mount bracket (WV-Q105A).

Required personal computer environment

As of July, 2015

CPU	When using 1080/60p [59.94 Hz] and 1080/50p [50 Hz] Intel® CoreTM i7 3.4 GHz or higher recommended Other than above Intel® CoreTM2 Duo 2.4 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*10 Windows® Internet Explorer® 11.0*10 Microsoft® Windows® 8 Pro 64-bit/32-bit*10 Windows® Internet Explorer® 10.0*10 Microsoft® Windows® 7 Professional SP1 64-bit/32-bit*11 Windows® Internet Explorer® 8.0 / 9.0 / 10.0 / 11.0*12
	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)	

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

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

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Rear View

AW-HE40SW/SK

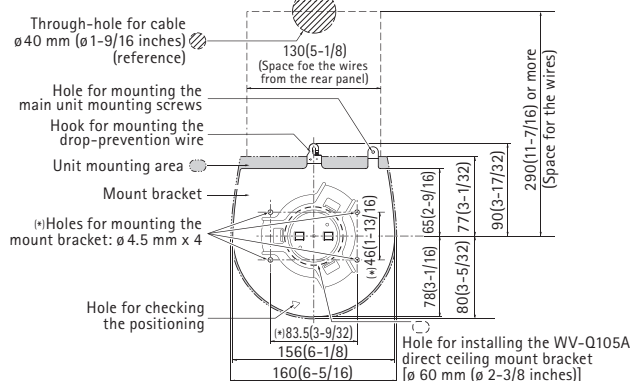


AW-HE40HW/HK



Bottom View

Unit: mm(inches)



The front panel of the unit on this side.

System Camera Options

As of July 2015

Feature Upgrade AW-SFU01G 	Control Assist Camera AW-HEA10W 	Control Assist Camera AW-HEA10K 
Remote Camera Controller AW-RP50 	Remote Camera Controller AW-RP120G (AC adaptor (DC12 V) is required separately.) 	Remote Operation Panel AK-HRP200G (AC adaptor (DC12 V) is required separately.) 
Wireless Remote Control AW-RM50G ("AA", "R6" or "LR6" battery x 2 are not included.) 	Compact Live Switcher AW-HS50 	Direct Ceiling Mount Bracket WV-Q105A 

Please refer to the latest information, etc. at the following Panasonic web site:



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

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JQA-0443



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