# Specifications

As of April, 2015

| General | | |
|---|---|---|
| | Power requirements | 5.0 V DC/0.86 A (when using AC adaptor)<br>44 - 57 V DC/0.14 A (PoE power supply) |
| | Allowable operating temperature | 0°C to 40°C (32°F to 104°F) |
| | Allowable relative humidity | 10% to 80% (no condensation) |
| | Unit weight | Approx. 0.9 kg (1.98 lb) (excluding mounting brackets) |
| | Dimensions (W x H x D) | 183 mm x 65 mm x 225 mm<br>(7-3/16 inches x 2-9/16 inches x 8-7/8 inches) |
| Camera Unit | Image sensor | 1/2.33-inch MOS solid-state image sensor<br>(Effective size of image sensor: 1/4.37-inch)<br>Total pixels: Approx. 15.3 million<br>Effective pixels<br>Video: Approx. 3.91 million (16:9) |
| | Lens | F2.0 (f = 2.15 mm)<br>35 mm equivalent; Approx. 18.0 mm (16:9)<br>Field of view: 95° (horizontal), 56° (vertical) [When zoom is 1x] |
| | Shutter speed | 1/60 to 1/12000 |
| | White balance | ATW, Sunny, Cloudy, Indoor1, Indoor2, AWB A, AWB B |

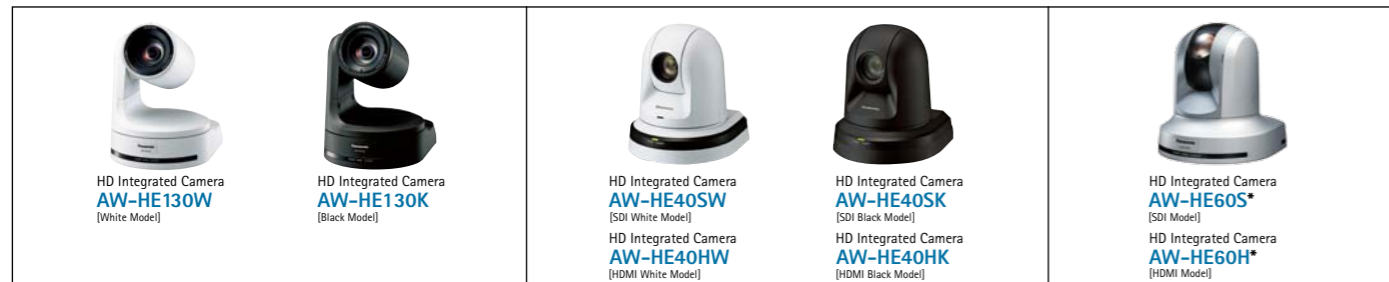| Camera Unit | Standard illumination | 1,400 lx |
|---|---|---|
| | Minimum illumination | Approx. 20 lx (1/60 in auto mode) |
| Input/Output Connector | HDMI | HDMI connector<br>• HDCP is not supported.<br>• Viera Link is not supported. |
| | Network | 10BASE-T/100BASE-TX,<br>RJ-45 connector, Automatic recognition of straight/crossover cable |
| | USB | Mini-B port: Used for maintenance |
| | SD Memory Card | microSD card slot: Used for maintenance |
| "PTZ Cntrl" compatible devices and operating systems | | Supported devices: iPad<br>Supported operating systems: iOS 8.1 |
| Standard Accessories | | Mounting bracket A (for mounting this unit): 1, Mounting bracket B (for securing this unit, for AW-HE130): 2, Mounting bracket C (for AW-HE40 Series): 1, Drop-prevention wire: 1, Drop-prevention wire mounting screw M4 x 8 mm: 1, Bracket mounting screws A M4 x 10 mm: 8, Bracket mounting screws B M3 x 6 mm: 4, AC adaptor: 1, Power cable: 1 |

## Rear view



## Option

Direct Ceiling Mount Bracket
### WV-Q105A



## Lineup of cameras compatible with the AW-HEA10W/K Control Assist Camera (for indoor use)



HD Integrated Camera
**AW-HE130W**
[White Model]

HD Integrated Camera
**AW-HE130K**
[Black Model]

HD Integrated Camera
**AW-HE40SW**
[SDI White Model]

HD Integrated Camera
**AW-HE40HW**
[HDMI White Model]

HD Integrated Camera
**AW-HE40SK**
[SDI Black Model]

HD Integrated Camera
**AW-HE40HK**
[HDMI Black Model]

HD Integrated Camera
**AW-HE60S**∗
[SDI Model]

HD Integrated Camera
**AW-HE60H**∗
[HDMI Model]

∗ When used with the AWHE60S/H, in some cases an AW-HE60S/H software upgrade will be necessary. For details, see "Support & Download" on the Panasonic website (http://pro-av.panasonic.net/en/).

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SP-HEA10PE

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# Panasonic

# AW-HEA10W/K

Control Assist Camera

For indoor use

## Tap into Easy Operation

PTZ control of HD Integrated Camera from iPad.



*Picture simulated

**AW-HEA10K**

**AW-HEA10W**

The Control Assist Camera supports flexible and intuitive operation of a HD Integrated Camera[*1] by allowing wireless control from an iPad[*2]. PTZ control is possible with just a single tap on the panoramic view of the scene. Allows up to 100 sets[*3] of cameras to be registered in a single iPad and the camera can be switched during the operation.

## Flexible setup and two color variations to choose from

Cameras can be set up suspended from the ceiling or standing, depending on the operating environment. The camera angle is manually adjustable with a pan range of ±30° and a tilt range of ±45°. Two color variations are also available: white and black. Select the setup type and color according to the intended application and environment.

**AW-HEA10K**

**AW-HEA10W**

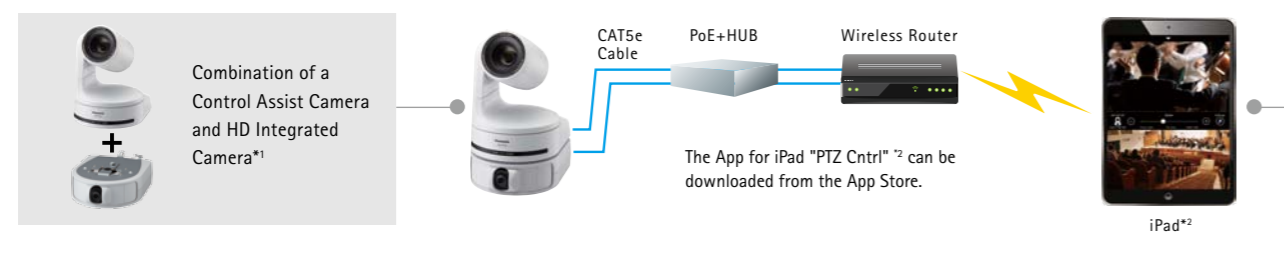## Ultra wide angle full HD live images to assist control

A 1/4.37 type (effective size) 3.91 megapixel MOS sensor and a single-focus 95° horizontal ultra wide angle lens enable wide and clear overview shots to assist control of HD Integrated Cameras.

## Easy operation by the free "PTZ Cntrl" app for iPad

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**Download on the App Store**

Download the free "PTZ Cntrl" app for iPad and install it to enable wireless control of the camera from the iPad. Operations can be made by touching the screen of the overall image from the Control Assist Camera and an image from an HD Integrated Camera.

## PoE[*5] support for less cabling and reduced installation cost

Connection to network devices supporting PoE (IEEE 802.3af compliant) allows power to be supplied via an Ethernet cable. This eliminates the need for power supply construction and laying power cable, allowing for fewer cords when installing and reduced installation expenses.

*5: Abbreviation of Power over Ethernet.

## HDMI output

The HDMI output allows you to use the video captured by the Control Assist Camera by outputting to devices equipped with HDMI. Multiple formats[*6] are supported (1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94p, and 576/50p signals).

*6: Output to iPad is 640 x 360 or 320 x 180.

## [Basic system and operations]

Combination of a Control Assist Camera and HD Integrated Camera[*1]

CAT5e Cable

PoE+HUB

Wireless Router

The App for iPad "PTZ Cntrl" [*2] can be downloaded from the App Store.

iPad[*2]

### Camera control functions[*4]

HD Integrated Camera's pan, tilt, zoom control and camera setting adjustment such as image quality or frame rate can be done from an iPad. Allows up to 100 sets[*3] of cameras to be registered in a single iPad and the camera can be switched during the operation.

Display the camera in control.

Control the zoom of the HD Integrated Camera by the slide bar.

Configure settings for the HD Integrated Camera.
[Settings available]
–Focus (Auto, Manual)
–Iris (Auto, Manual)
–Gain (0dB, 3dB, 6dB, 9dB, 12dB, 15dB, 18dB, Auto)
–Resolution (Low, Middle, High)
–Frame Rate (Low, Middle, High)
–Calibration (Positioning of the images from HD Integrated Camera and Control Assist Camera)
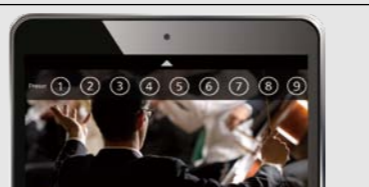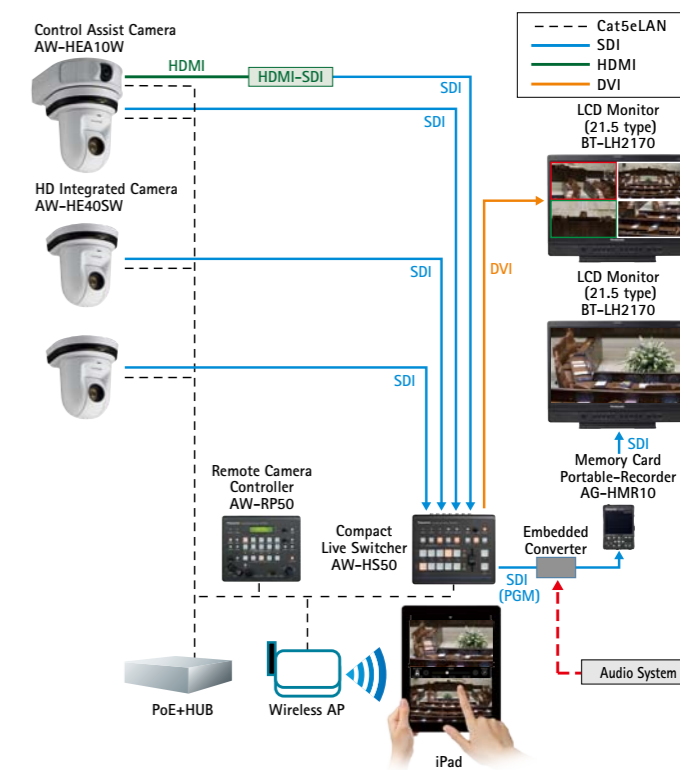–Camera reset (power ON/OFF)

**<Image from HD Integrated Camera>**
Tapping the screen to set the spot to the center and by dragging the position you can change the camera angle. Pinch out to zoom in, pinch in to zoom out, using this enlarged display allows you to adjust the angle more precisely.

**<Image from Control Assist Camera>**
Tapping and dragging the overall image moves the display to the target for capture by the HD Integrated Camera. You can even visually decide the field of view by placing two fingers on the screen. Changing the distance between the two fingers controls the field of view.

### Preset memory function for smooth operation

The camera shooting angle can be set in advance with the preset memory function. Tapping and holding the number button saves up to nine setting configurations. Preset can be recalled by just tapping the number.

## [Application Examples]

**Parliaments**

### When combined with a Control Assist Camera, there are even more uses for HD integrated camera

Even the unexpected remarks of a participant without a preset position can be quickly handled with intuitive operations. In combination with wide-angle video with an overall view, it is possible to sensitively capture video suitable for constantly changing assembly sessions.

Control Assist Camera AW-HEA10W

HDMI

HDMI-SDI

HD Integrated Camera AW-HE40SW

Remote Camera Controller AW-RP50

PoE+HUB

Wireless AP

Compact Live Switcher AW-HS50

Embedded Converter

iPad

--- Cat5eLAN
— SDI
— HDMI
— DVI

LCD Monitor (21.5 type) BT-LH2170

LCD Monitor (21.5 type) BT-LH2170

Memory Card Portable-Recorder AG-HMR10

SDI (PGM)

Audio System

**Tour Courses**

In places like zoos, by shooting the animals' overall space, it is possible to easily find the constantly moving animals themselves. For places that are difficult to see from the tour course, the staff can manually operate the camera while giving easy-to-understand explanations using a large-screen monitor.

**Symposium / Lecture Capture**

Excellent for use in situations (lectures, etc.) where the speakers have not been defined in advance. The camera can be quickly and easily controlled to zoom in on random speakers whose positions have not been preset.

**TV Conferences**

With one iPad, even participants can control the HD integrated camera for lively teleconferencing. With the wide-angle view, it is possible to quickly capture the speaker with just a tap.

*1: AW-HE130W/K, AW-HE40 Series, and AW-HE60S/H only. When used with the AWHE60S/H, in some cases an AW-HE60S/H software upgrade will be necessary. For details, see "Support & Download" on the Panasonic website (http://pro-av.panasonic.net/en/). *2: An iPad is required (sold separately). The "PTZ Cntrl" app for iPad (free download from the App Store) is required. See website (http://pro-av.panasonic.net/en/sales_o/camera/aw-hea10/ ) for details. *3: When HD integrated cameras and Control Assist Cameras are combined. *4: Only functions supported by AW-HE130, HE40, and HE60 can be controlled.