System Camera Options

Live Production Center
AV-HLC100

Control Assist Camera
AW-HEA10W

Direct Ceiling Mount Bracket
AW-RP120G

Remote Operation Panel
AK-HRP5000

Remote Camera Controller
AW-RP50

Wireless Remote Control
AW-RM50G

Direct Ceiling Mount Bracket
AW-Q105A

Optional Software

Auto Tracking Software Key
AW-SF100/AW-SF200

[A] Additional Licenses AW-SF202

Features 22x optical zoom lens and support for PoE+*1 for outstanding operability and installation flexibility

For more information, please visit Panasonic web site https://pro-av.panasonic.net/

* Specifications are subject to change without notice.

AW-HE38HW

1. Abbreviation of Power over Ethernet Plus.
Full HD camera with integrated pan-tilt for lectures, meetings and a wide variety of applications.

The integrated full HD camera AW-HE38HW/HK 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+ enables power to be supplied via a LAN cable*. 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 22x Zoom Lens/ Super Resolution 30x Zoom**

In addition to a 22x optical zoom, the AW-HE38HW/HK can zoom up to 30x while maintaining high resolution thanks to Super Resolution technology. It also features a 16x digital zoom and a 3.4x digital extender, which enables the AW-HE38HW/HK to shoot in large conference halls and classrooms.

**Audio Input Function**

The AW-HE38HW/HK also supports audio input, embedding and encoding. Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the original AW-HE38HW/HK can be switched ON/OFF and an Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the original AW-HE38HW/HK can be switched ON/OFF and an Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the original AW-HE38HW/HK can be switched ON/OFF and an Audio output to IP is also supported.

**Supporting PoE+ 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.

**Flexible IP Control Architecture Simplifies System Design and Operation***

Up to 100 x AW-HE38HW/HK cameras can be controlled via IP from a single AW-HE710/HE300 or PC. An AW-HE38HW/HK can also be simultaneously controlled by up to four AW-HE710/HE300 via IP.

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

This pan range of ±175° and tilt range of −30° to +40° creates a wide shooting area. Pan and tilt operate at a maximum speed of 60°/second and respond quickly to remote control operations. They operate quietly at a sound level of NC15 or lower.

**NDI|HX Compatibility for Excellent Video Streaming Quality**

The AW-HE38HW/HK can be upgraded to an NDI|HX compatible model if purchasing a license from the NewTek website (https://www.newtek.com/hd). Highly efficient NDI|HX compatibility enables smooth and low-latency streaming by encoding and transmitting high-quality video in real time. This technology eliminates the need for IP decoders, allowing output to be sent directly to the receiver.

* Contact your local Panasonic vendor for further information.

**Specifications**

- **Power requirements**: DC 12 V (Supplied AC adaptor), DC 42 V to 57 V (PoE+ power supply), 0.4 A (PoE+ power supply)
- **Dimensions (W x H x D)**: 6-5/16 inches x 7-41/128 inches x 6-17/32 inches
- **Ambient operating temperature**: 0 °C to 40 °C (32 °F to 104 °F)
- **Power requirements**: DC 12 V (Supplied AC adaptor), DC 42 V to 57 V (PoE+ power supply), 0.4 A (PoE+ power supply)

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*1: Power over Ethernet Plus, IEEE 802.3at
*2: The software for the AW-HE38HW/HK may need to be updated depending on the existing software version. For details, see the Panasonic website (https://pro-av.panasonic.net). *3: IP filtering is disabled with this digital zoom. *4: Control signals are transmitted for 4 or more signals. *5: Depending on the pan or tilt position, the camera may be reflected in the image.

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**System Configuration for Excellent Video Streaming Quality**

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

The integrated Full HD camera AW-HE38HW/HK 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+ enables power to be supplied via a LAN cable. The result is installation flexibility. It also supports HD-IP video output, output of video and audio via USB, and SD card recording.

Developed 1/3,2-type MOS Sensor
Equipped with a developed 1/3,2-type MOS sensor and DSP (Digital Signal Processor) for high sensitivity and high resolution.

High Performance Optical 22x Zoom Lens/Super Resolution 30x Zoom
In addition to a 22x optical zoom, the AW-HE38HW/HK can zoom up to 30x while maintaining high resolution thanks to Super Resolution technology. It also features a 16x digital zoom and a 3.4x digital extender, which enables the AW-HE38HW/HK to shoot in large conference halls and classrooms.

Equipped with High Dynamic Range (HDR) Mode
In addition to conventional Dynamic Range Stretch (DRS) and Digital Noise Reduction (DNR), the AW-HE38HW/HK is newly equipped with High Dynamic Range (HDR) mode. When shooting and synthesizing two images with different exposure times, the AW-HE38HW/HK can create video with high visibility that corrects for halation and black defects even under backlit conditions.

Audio Input Function
The AW-HE38HW/HK also supports audio input, embedding and encoding. Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the original AW-HE38HW/HK 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.

Supporting PoE+ 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.

Flexible IP Control Architecture Simplifies System Design and Operation
Up to 100 x AW-HE38HW/HK cameras can be controlled via IP from a single AW-RP120B/PPO or PC. An AW-HE38HW/HK can also be simultaneously controlled by up to five AW-RP120B/PPOs via IP.

Exceptional Pan-tilt Performance for Smooth Shooting Over a Wide Area
This pan range of ±175° and tilt range of ±90° to ±45° creates a wide shooting coverage. Pan and tilt operate at a maximum speed of 80°/second and respond quickly to remote control operations. They operate quietly at a sound level of NC35 or lower.

NDIHX Compatibility for Excellent Video Streaming Quality
The AW-HE38HW/HK can be upgraded to an NDIHX compatible model if purchasing a license from the NewTek website (https://www.newtek.com/NDI). Highly efficient NDIHX compatibility enables smooth 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.

Specs

**General**
- **Lens** [f=4.3 mm (11/64 inches) to 94.6 mm(3-23/32 inches); 35 mm (1-3/8 inches)
- AW-HE38HW/HK : Motorized 22x zoom, F1.6 to F4.3
- **SD card type** micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB)
- **Stream format** 1280 x 720/29.97p, 1280 x 720/25p, 1920 x 1080/29.97p, 1920 x 1080/59.94p, 1920 x 1080/50p
- **Video compression format** MPEG-4 AVC/H.264 High Profile
- **System frequency** 59.94 Hz/50 Hz
- **Video output** USB Video Class Ver1.0
- **Power requirements** DC 12 V (Supplied AC adaptor)
- **Ambient operating temperature** 0 °C to 40 °C (32 °F to 104 °F)
- **Power source** Control signal Video signal

**Accessories**
- **Control Signals**
- **System Configuration**
- **System Setup**
- **Web control**
- **i-OS, Android support** JPEG image display
- **Standard protocol** Mini DIN 8-pin cable, male connecting cable
- **Protocol** RTSP over HTTP, SSL (TLS), Multicast/Unicast
- **TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, NTP, MLD, RTSP over TCP, RTSP over HTTP, SSL (TLS), Multicast/Unicast**
Other Functions
- Preset memory up to 100 positions.
- Functions such as freeze during preset, digital/external zoom and color temperature settings can be assigned to the user buttons on Panasonic controllers.
- Equipped with RS232C remote terminal; up to five units can be controlled via serial control from a controller.
- Up to four units can be operated with a wireless remote controller (AW-HE60G sold separately).
- Easy installation thanks to use of turn-lock mechanism.

Optional Software
- Auto Tracking Software Key
- PTZ Virtual USB Driver
- PTZ Control Center
- Other Functions

AW-SF100/AW-SF200
- Additional Licenses AW-SF200
- Additional Licenses AW-SF202

Features
- 22x optical zoom lens
- Motion detection and face detection technologies using video streaming from a camera achieves smooth auto tracking regardless of where the person is facing.
- AW-SF102 allows a single PTZ camera to be controlled on either a stand-alone or web application version.
- AW-SF102 enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
- *1: Up to four cameras per server can be controlled simultaneously.

AW-SF200
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)

AW-SF202
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF203
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF204
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF205
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF206
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF207
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF208
- Enables simultaneous auto tracking and centralized control of multiple cameras.\(^1\)
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AW-SF209
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