Panasonic’s 4K 60p/50p*1 12G-SDI Supported PTZ Camera the Industry's First*2

4K 60p/50p*1 output supported for superior image quality

75.1° field of view for wide-angle shooting

Optical 20x zoom

Large touch panel for easy usability

New joystick for flexible operability

The next-generation PTZ camera supports high-quality video production in stadiums, lecture halls, churches and other venues. Smooth and high-quality 4K 60p/50p*, high-magnification zoom and a wide shooting angle expand the range of the PTZ camera's applications. The camera is equipped with a variety of interfaces and supports simultaneous 4K/HD operation which allows for versatility in current and future production systems.

**AW-UE150W**
4K Integrated Camera
[White Model]

**AW-UE150K**
4K Integrated Camera
[Black Model]

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### High-Quality 4K 60p/50p*1 Shooting

3840 x 2160 4K output and 59.94p/50p*1 shooting achieve extremely smooth video, even in live sports and other environments containing rapid movement.

#### Output format

<table>
<thead>
<tr>
<th>Mode</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K</td>
<td>2160/59.94p, 2160/50p, 2160/29.97p<em>2, 2160/25p</em>3, 2160/24p<em>2, 2160/23.98p</em>2</td>
</tr>
<tr>
<td>HD</td>
<td>1080/59.94p, 1080/50p, 1080/29.97p<em>2, 1080/25p</em>2, 1080/24p<em>2, 1080/23.98p</em>2, 1080/23.98PsF, 1080/59.94i, 1080/50i</td>
</tr>
<tr>
<td></td>
<td>720/59.94p, 720/50p</td>
</tr>
</tbody>
</table>

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### 1.0-type MOS Sensor Mounted

The large 1.0-type MOS sensor enables high sensitivity shooting with low noise. The sensor boasts a light-capturing area that is approximately four times larger than that of the 1/2.3-type sensor to guarantee a wide dynamic range.

### Optical 20x Zoom / Industry's First*2 75.1° Horizontal Wide-Angle Shooting

Adding “i zoom” to our optical 20x zoom, maintains high resolution while enabling ultra-high resolution 32x zoom in HD mode and 24x zoom in 4K mode. This enables distant subjects to be captured clearly. Furthermore, 75.1° horizontal wide-angle shooting enables capture of the entire area, even when installation space is limited.

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### HDR (HLG) Support*4

The camera supports HDR (High Dynamic Range) to prevent blown-out highlights and blocked-up shadows and enable picture quality close to that of the naked eye. Conforms to BT.2020.

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* Images are simulated.
Optical Image Stabilizer (OIS) Loaded

Vibrations of the mounted surface caused by doors opening and closing, audio systems and other installed equipment are automatically corrected to ensure stable shooting.

Night Mode Support

Equipped with Night Mode for infrared shooting. The use of IR rays in low-light situations enables shooting in situations that would normally be difficult, such as when capturing wildlife (image output is black and white).

Incredible Pan and Tilt Performance

Pan and tilt operate from a minimum speed of 0.08°/s to a maximum of 180°/s in high-speed mode. This is approximately 3 times the speed of our current product*5 for rapid capture of the intended target. Furthermore, a low noise level of NC35 or less has been ensured when operating in normal mode, which is perfect for shooting in quiet environments*6.

Comparative Pan / Tilt Speeds

- **Our current product**
  - Maximum speed of 60°/s
- **AW-UE150W/K**
  - Maximum speed of 180°/s (in high-speed operation mode)

Approx. 3 times the conventional speed

Cropping Function

Images shot in 4K can be output in their entirety while simultaneously cropping parts of those images. The cropping position can be specified from a maximum of 3 locations to enable simple operation from the Remote Camera Controller AW-RP150GJ, a web browser or other operations screen.

Multiple Interfaces Supported

A wide range of outputs are supported: 12G-SDI, 3G-SDI, HDMI, IP and even Optical Fiber output. The addition of 4K/HD simultaneous output guarantees the right output for the operation at hand. 4K video can be down converted to HD directly within the camera.

Rear View

LAN (PoE++ power supply)

Simultaneous output

3G-SDI
HDMI
IP
12G-SDI
Fiber OUT

Approx. 3 times

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**Adaptive Matrix prevents color overloaded from blue LEDs**

Equipped with an Adaptive Matrix function that automatically controls matrix calculation coefficients. This enables shooting while preventing color overloaded, even during live events and on stages with strong blue LED lights.

*Use may require a software version update.

**WEB UI Improved**

Camera IP image output, settings and control can be performed using a web browser on a computer connected via an IP network. In addition to PCs and Macs, iPads, iPhones, Androids and other mobile devices can be used for operation, and this pursuit of easy-to-use interfaces has enabled smooth camera control from remote locations.

*Use may require a software version update.

**AW-RP150GJ Connection for Large-Scale Production Systems**

IP connection from the Remote Camera Controller AW-RP150GJ through a HUB (switching hub) enables control of up to 200 AW-UE150W/K units. Furthermore, a single AW-UE150W/K unit can be controlled from up to 5 AW-RP150GJ units.

*Use may require a software version update.

**Direct Broadcast via RTMP/RTMPS**

RTMP/RTMPS* is supported to enable direct upload of video to live-streaming services such as YouTube Live and Facebook Live. This means a live stream can be broadcast directly from the camera.


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

The AW-UE150W/K can be upgraded to an NDI | HX compatible model if purchasing a license. Highly efficient NDI | HX compatibility enables high-quality video to be encoded and transmitted in real-time and input signals to be directly sent to a switcher (AV-HLC100) without the need for an IP decoder.

**JPEG Image Saving Function Equipped**

Up to 100 still images can be captured and saved as JPEG files to the built-in camera memory.

*Use may require a software version update.

**FreeD**

Integration with AR/VR systems is available via FreeD-compliant command output. Camera tracking information (pan/tilt/zoom/focus/iris) is output according to a synchronizing signal to facilitate configuration of virtual systems without an encoder.

*Images are simulated.

**V-Log Support**

Compatible with V-Log, which is equipped on VariCam, our high-end cinema camera. The wide dynamic range and color gamut provide images suited to color grading. Using V-Log-equipped camera recorders and studio cameras enables video production with consistent image creation. Furthermore, two types of settings, V-Log and V-709, can be selected independently per output interface, so that 4K V-Log video for color grading can be output simultaneously with full HD V-709 video for on-site monitoring.

*Use may require a software version update.
Optional Products

PC Software for Remote Camera Support

Supporting Lecture Capture with Auto Tracking function

Auto Tracking Software Key

Stand-Alone and Web App Versions

AW-SF100*1

Server Version

AW-SF200*1

2 Additional Licenses (for AW-SF200)

AW-SF202*1

3 Additional Licenses (for AW-SF200)

AW-SF203*1

A 30-day Free Trial is Available

- Motion detection and face detection technologies using video streaming from camera achieve smooth auto tracking regardless of where the person is facing. Installation of sensors and other devices are not necessary.
- 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. AW-SF200 operates on a server.
- The stand-alone version is easy to set up by installing software on a PC*2 and connecting PTZ cameras.
- 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

Software that converts PTZ camera on your network into Super Web cam

PTZ Virtual USB Driver (Free software)

- Remote cameras on the network can be used as USB cameras for simple execution of web meetings with high image quality.
- Camera control enabled via GUI for image quality adjustment, pan, tilt, zoom, etc. Touch panel operations are supported.
- Up to 5 cameras can be registered.
- Automatic detection of connected cameras and network settings enabled.

Control multiple PTZ Cameras from PC

PTZ Control Center (Free software)

- Video can be checked during centralized management of multiple cameras.
- Camera control enabled via GUI for image quality adjustment, pan, tilt, zoom, etc. Touch panel operations are supported.
- Clicking the preset button attached to thumbnails enables simple recall of presets.
- Pan, tilt, zoom and other operations can also be controlled using game controllers made by other companies.

Software for Remote Camera Support

- Optional Products

Remote Camera Controller

AW-RP150GJ

- A separate AC adapter or PoE+ HUB is required for power supply.

AW-RP60*4*5

- A separate AC adapter or PoE HUB is required for power supply.

AW-RP50*5*6

- (Limited release)

Live Production Center

AV-HLC100*5

Remote Operation Panel (ROP)

AK-HRP1000GJ*5

- A separate PoE HUB is required for power supply.

AK-HRP1005GJ*5

Wireless remote control

AW-RMS50G

- (AAA, "R6" or "LR6" battery are not included.)

Optional Products (As of November, 2019)

*1: Use may require a software version update.
*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.
*4: 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 “Download Software Download” on the Panasonic website <https://pro-av.panasonic.net/>.
*5: The face recognition function is based upon the face recognition software developed by PUX Corporation.

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

<About power supply>

An AC adapter is not included with the AW-UE150W/K.
An XLR4 pin 12 V capacity power supply is required to supply the rated power consumption (48 W) of this device.
Intuitive Camera Control for Ease of Use and One-Person Operation

A ZOOM/FOCUS rocker mounted on the joystick manages pan and tilt operations for zoom and focus control and intuitive single-handed operation. The built-in touch display allows for easy and quick operation of all essential camera functions.

AW-RP150GJ
Remote Camera Controller

- Power supply not included. An AC adaptor or PoE+ HUB is required.

7-inch Touch Panel GUI Monitor
- Status
- Menu
- Video Monitoring

7-inch Touch Panel GUI Monitor
- Status
- Menu
- Video Monitoring

Color Adjustment

Memory Card Slot

Menu Select

User Buttons

Menu/Picture Button

Camera Selection

Joystick with zoom/focus lock for single-hand operation

Rear View

PoE+* support enables power supply via a LAN cable. Additionally, a dual system GPIO (general purpose input/output) terminal is equipped as standard.

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Joystick with zoom/focus lock for single-hand operation
4K Integrated Camera
AW-UE150W/K

Settings from the AW-RP150GJ are transferred to the rest of the cameras

Remote Camera Controller
AW-RP150GJ

The first camera's settings are transferred to the AW-RP150GJ

Settings from the AW-RP150GJ are transferred to the rest of the cameras

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Touch Panel GUI for High-Quality Operability and Visibility

The touch panel GUI monitor supports camera image display during shooting as well as a variety of operations. The panel is equipped only with buttons that are frequently used, with menu and camera switching operations, indicators and other functions consolidated in the touch panel GUI.

Menu screen example

Touch Focus Function Equipped

The focus is quickly aligned to the area touched by tapping the screen. In addition, the Focus in Red display assists with aligning focus by framing the part that is in-focus in red.

Focus assist (Focus in Red) screen example

Camera Settings Copied to Multiple Cameras

Scene files, system settings files and other camera settings can be saved on the AW-RP150GJ SD card. These settings can then be copied to multiple cameras via the SD card. This massively reduces on-location setup time when shooting at events with large numbers of cameras.

Smooth Creation of Cropped Images

The cropping function loaded on the AW-UE150W/K can be controlled from the AW-RP150GJ. Images output from the AW-UE150W/K to the monitor can be cropped in three different locations displayed with colored frames (yellow/green/magenta), and fine-tuned with the joystick as you watch. Required images can be cropped precisely and simply.

Cropping screen example

Preset Memory for Simple Camera Control

Registration of the camera angle and other remote camera settings allows them to be easily recalled from the touch panel GUI monitor. The movement speed for play back the preset memory can be set by the specified speed or time.

<Supported Presets>
- Pan and tilt position
- Zoom position
- Focus position
- Lens aperture (manual iris only)
- White balance settings
- Gain
- Crop position coordinates

Tracing Memory for Memory and Recall of Camera Operations

The tracing memory function records a series of operation performed for the remote camera. Up to 5 minutes for 10 operations can be memorized for a single camera, and that trajectory can then be reproduced.

<Supported Presets>
- Pan and tilt position
- Zoom position
- Focus position
- Lens aperture (manual iris only)
- White balance settings
- Gain

Multiple-Camera Connection Supported for Large-Scale Systems

IP connection via a switching hub can be used to control up to 200 remote cameras. Up to 5 remote cameras can be controlled in a serial connection.

*For cameras compatible with AW-RP150GJ, see page 8.
Remote Camera Controller AW-RP150GJ-Compatible Panasonic Remote Cameras

**For indoor use**
- 3G-SDI, HDMI, USB and IP transfer for HD image output
- HD Integrated Camera
  - AW-HE40SW/SK [SDI Model]\(^*2\)
  - AW-HE40HW/HK [HDMI Model]\(^*2\)
- ND1 | HX Compatible Entry-level HD Integrated Camera
  - AW-HN38HW/HK\(^*2\)

**For outdoor use**
- High sensitivity, S/N ratio and resolution with IP65 waterproofing and dustproofing
- Full-HD Outdoor Integrated Camera
  - AW-HR140\(^*2\)

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p.
*2: Use may require a software version update.

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### Dimensions

**AW-UE150W/K Dimensions**

**AW-UE150W/K Bottom View**

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**AW-RP150GJ Dimensions**

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The front panel of the unit on this side
Application 01: 4K Studio

Studio shooting of smooth, high-quality 4K 60p/50p*1 images

The AW-UE150W/K is capable of 4K 60p/50p*1 output for high-quality remote shooting in studio operations where high image quality is required. A large tally lamp has been equipped to make on-air cameras easily identifiable, even from far away.

Application 02: Live Streaming

RTMP/RTMPS and NDI|HX support*2 enable streaming workflow to be optimized to the situation

Video being shot from a single camera can be uploaded directly from the AW-UE150W/K to a live-streaming service via RTMP/RTMPS. For multi-camera setups, use NDI|HX*2 to connect to the Live Production Center AV-HLC100*3. Multiple AW-UE150W/K units can be controlled from the AV-HLC100*3 for smooth live streaming.

Application 03: Halls

High-magnification zoom and wide-angle shooting ensure targets are captured clearly in large venues

The large 1.0-type MOS sensor enables high-sensitivity shooting with little noise in halls and other dark locations. The optical 20x zoom further ensures that even far-away targets shot in large venues are captured clearly. 75.1° horizontal wide-angle shooting allows incredible flexibility in shooting location while still being able to capture the entire shot.

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p.
*2: Contact your Panasonic sales representative for further details.
*3: Use may require a software version update.

* A computer is required for server connection settings.
Specifications

**<GENERAL>**

- **Power Requirements:** 12 V DC (10.8 V to 13.2 V)
- **PoE++:** IEEE802.3bt standard: DC 42 V to 57 V (Camera Input)
- **Current Consumption:** 4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
- **Ambient Operating Temperature:** 0 °C to 40 °C (32 °F to 104 °F)
- **Ambient Operating Humidity:** 20 % to 90 % (no condensation)
- **Storage Temperature:** −20 °C to 50 °C (−4 °F to 122 °F)
- **Mass:** Approx. 4.2 kg (9.2 lb) (excluding mount bracket)
- **Dimensions (W x H x D):** 213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches)
- **Controller Supported:** AW-RP150GJ, AW-RP60GJ (Support planned for the future)*
- **Gamma:** HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3/ FILM REC / VIDEO REC / HLG

**<Camera Unit>**

- **Imaging Sensors:** 1-type 4K MOS×1
- **Focus:** Switching between auto and manual
- **Zoom:** • Optical zoom: 20x
  • i.Zoom: UHD 24x, FHD 32x
  • Equivalent: 24.5 mm (31/32 inches) to 490.0 mm (19-9/32 inches)
- **Dimensions (W x H x D):** 213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches)
- **Ambient Operating Temperature:** 0 °C to 40 °C (32 °F to 104 °F)
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**<Input>**

- **Input Connector:** DC12 V IN, G/L IN (BNC) • BBS (Black Burst Sync), tri-level sync supported
- **Video Input:** HDMI • HD-SDI 24-bit, 10-bit
  - HD: HDMI 2.0 standard
  - 4K: HDMI 2.0 standard

**<Synchronization System>**

- **Video Output:**
  - HDMI
  - HD-SDI
  - 3G-SDI
- **Input:**
  - LAN: LAN connector for IP control (RI-46)
  - RS-422: CONTROL IN RS-422A (RI-45)
- **Output:**
  - LAN: LAN connector for IP control (RI-46)

**<Supported operating systems and web browsers>*<**

- **Windows Microsoft® Windows® 7, 10
  - Windows® Internet Explorer® 11 (64 bit/32 bit)
  - Microsoft Edge
  - Google Chrome
- **Mac OS X**: Mac OS 10.12.4, Safari 11, Google Chrome
- **iPhone / iPad**: iOS 11.4.1, Google Chrome

**<Synchronization System>*<**

- **Transmission Type:**
  - Unicast port (AUT0)
  - Unicast port (MANUAL)
  - Multicast port

**<IP Streaming>*<**

- **Image Streaming Mode:** JPEG (MJPEG)
  - H.264, H.265
  - Constant bit rate
  - Unicast port (MANUAL)

**<Pan-tilt Head Unit>*<**

- **Camera/Pan-tilt Head**
  - IP connecting cable
  - LAN cable**: (category 5e or above, straight cable / crossover cable)
  - Max. 100 m (328 ft)
  - IP protocol connecting cable
  - LAN cable** (category 5e or above, straight cable)
  - Max. 1000 m (3280 ft)

**<Synchronization System>*<**

- **Transmission Type:**
  - Unicast port (AUT0)
  - Unicast port (MANUAL)
  - Multicast port
  - Transmission Priority
  - Constant bit rate
  - Frame rate
  - Best effort
AW-RP150GJ

<GENERAL>

Power Requirements: 12 V DC (10.8 V to 13.2 V)

PoE+: IEEE802.3at standard: DC 42 V to 57 V (Camera Input)

Current Consumption: 1.0 A (Connector Input)

Ambient Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F)

Allowable Humidity: 20% to 90% (no condensation)

Dimensions (W x H x D): 342 mm x 178 mm x 245 mm (13-15/32 inches x 7 inches x 9-21/32 inches)

Weight: Approx. 3.2 kg (7.05 lb)

Storage Temperature: –20 °C to 50 °C (–4 °F to 122 °F)

<Connection Specifications>

Preset Memory: 100

Tracing Memory: Maximum 5 min. total per camera, maximum of 10 settings per camera

<Other Functions>

SD Memory Card Slot: SDHC / SDXC Memory Card Slot x 1
Finisar Corporation
8G Fibre Channel (8GFC)
10km SFP+ Optical Transceiver
FTLF1428P3BNV
Operation-verified in Oct. 2018

16G Fibre Channel (16GFC)
10km SFP+ Optical Transceiver
FTLF1429P3BNV
Operation-verified in Oct. 2018

AJA Video Systems
1-Channel Single-Mode LC Fiber to 12G-SDI Receiver
FiDO-R-12G
Operation-verified in Oct. 2018

Blackmagic Design
Teranex Mini Optical to HDMI 12G
Operation-verified in Oct. 2018

GeoVision Inc.
Poe Adapter
GV-PA901
Operation-verified in Feb. 2019

PLANET Technology Corp.
Layer 3 8-Port 10/100/1000T 802.3bt
PoE + 2-Port 10/100/1000T + 2-Port 10G SFP+ Managed Switch
GS-5220-8UP2T2X
Operation-verified in Oct. 2018

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* Specifications are subject to change without notice.

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

Broadcast and Professional AV Website
Contact Information
Facebook
Mobile App