# **Panasonic**

# PTZ Camera System Lineup



## PTZ Camera System Specification Comparison

Outdoor High-end Standard **4**K FHD **4**K HDR Model AW-UE160W/K AW-UE150AW/AK AW-HE145W/K AW-UE100W/K AW-UE80W/K AW-UE40W/K AW-UE20W/K AW-UE4WG/KG **AW-UR100** AW-UE30W/K Black (K) **Camera Body Color** Silver or Pearl White (W) or White (W) or Pearl White (W) or Pearl White (W) or Pearl White (W) or White (W) or White (W) or White (W) General 1-type (1")\*4 4K MOS 1-type (1") Full-HD MOS 1/2.5-type (1/2.5") 4K MOS 1/2.5-type (1/2.5") 4K MOS 1/2.5-type (1/2.5") 4K MOS 1/2.5-type (1/2.5") 4K MOS 1-type (1") 4K MOS 1/2.8-type (1/2.8") 4K MOS 1/2.5-type 4K MOS Sensor **Effective Pixels** Approx. 9.62 megapixels Approx. 20.18 megapixels Approx. 20.18 megapixels Approx. 8.49 megapixels Approx. 8.49 megapixels Approx. 8.49 megapixels Approx. 8.46 megapixels Approx. 8.49 megapixels Approx. 8,29 megapixels 24x (AW-UE50, AW-UE40) Optical Zoom 20x 24x 24x 20x (AW-UE30) UHD 24x, FHD 32x UHD 28x, FHD 36x UHD 28x, FHD 36x UHD 28x, FHD 36x i.Zoom UHD 24x, FHD 32x FHD 32x Approx. 16x UHD 28x, FHD 36x **Digital Zoom** 10x 10x 10x 10x 10x 10x 4x 4x 10x Horizontal 75.1° (W) to 4.0° (T) 75.1° (W) to 4.0° (T) 75.1° (W) to 4.0° (T) 74.1° (W) to 3.3° (T) 74.1° (W) to 3.3° (T) 74.1° (W) to 3.3° (T) 71° (W) to  $6^{\circ}$  (T) 111° (LDC OFF)\*5 74.1° (W) to 3.3° (T) FOV Vertical 46.7° (W) to 2.3° (T) 46.7° (W) to 2.3° (T) 46.7° (W) to 2.3° (T) 46.0° (W) to 1.9° (T) 46.0° (W) to 1.9° (T) 46.0° (W) to 1.9° (T)  $43^{\circ}$  (W) to  $3^{\circ}$  (T) 75° (LDC OFF)\*5 46.0° (W) to 1.9° (T) Diagonal 82.8° (W) to 4.6° (T) 82.8° (W) to 4.6° (T) 82.8° (W) to 4.6° (T)  $81.8^{\circ}$  (W) to  $3.8^{\circ}$  (T) 81.8° (W) to 3.8° (T)  $81.8^{\circ}$  (W) to  $3.8^{\circ}$  (T) 79° (W) to 7° (T) 120° (LDC OFF)\*5 81.8° (W) to 3.8° (T) Focus Auto / Manual Single focus Auto / Manual HD: 1,000 TV lines Typ 4K: 1,500 TV lines Typ 4K:1,600 TV lines Typ (Center area) 4K:2,000 TV lines Typ (Center area) 4K: 1,500 TV lines Typ (Center area) 4K: 1,500 TV lines Typ (Center area) 4K: 1,500 TV lines Typ (Center area) 4K: 1,400 TV lines Typ (Center area) 4K: 1,400 TV lines Typ (Center area)\*6 **Horizontal Resolution** HD: 1,000 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area) HD: 900 TV lines Typ (Center area)\*6 HD: 1,000 TV lines Typ (Center area) | HD: 1,000 TV lines Typ (Center area (Center area) HD: 1,000 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area) (Center area) F14 / 2,000 lx (Low Light) F12 / 2,000 lx (High Sens) F12 / 2,000 lx (High Sens) F5.6 / 2,000 lx (High Sens) **Standard Sensitivity** F11 / 2,000 lx (Normal) F9 / 2,000 lx (Normal) F9 / 2,000 lx (Normal) F4 / 2,000 lx (Normal) Auto, -3 dB to 36 dB (1 dB step) Auto. -3 dB to 36 dB (1 dB step) Auto, 0 dB to 36 dB (1 dB step) Auto, 0 dB to 36 dB (1 dB step) Auto, 0 dB to 36 dB(1 dB step) Auto, 0 dB to 36 dB (1 dB step) Auto, -6 dB to 12 dB (1 dB step) Auto, 0 dB to 42 dB (3 dB step) Auto, 0 dB to 42 dB (3 dB step) (Super Gain function equipped: 37 dB to 42 dB) (Super Gain function equipped : 37 dB to 42 dB) (Super Gain function installed: 37 dB to 42 dB) (Super Gain function installed: 37 dB to 42 dB) (Super Gain function installed: 37 dB to 42 dB) Super Gain function equipped: 37 dB to 42 dB) Serial / IP / IR / USB Serial / IP / IR / USB IP/ IR / USB Serial / IP / IR Control PoE++\*7 / XLR PoE++\*7 / AC Power PoE++\*7 / XLR PoE++\*7 / XLR PoE++\*7 / AC PoE+\*7 / AC PoE+\*7 / AC 3.1 A to 5.5 A (DC) 1.0 A (USB) 5.0 A(XLR) 4.0 A (XLR) 4.0 A (XLR) 3.0 A (AC) 3.0 A (AC) 1.8 A (AC) 1.3 A (AC) **Current Consumption** Weight\*8 Approx. 4.6 kg (10.14 lbs) Approx. 4.3 kg (9.48 lbs) Approx. 4.1 kg (9.04 lb) Approx. 2.3 kg (5.06 lb) Approx. 2.0 kg (4.41 lbs) Approx.1.8 kg (3.97 lbs) Approx. 1.9 kg (4.19 lbs) Approx. 0.5 kg (1.1 lb) Approx. 9.0 kg (19.84 lb) Dimensions (W x H x D) 170.0 mm x 211.0 mm x 171.0 mm 213.0 mm x 277.0 mm x 240.0 mm 213 mm x 267 mm x 219 mm 213 mm x 267 mm x 219 mm 169.2 mm x 204.6 mm x 170.6 mm 160.0 mm x 192.1 mm x 166.0 mm 165.1 mm x 176.2 mm x 176.1 mm 123 mm x 131 mm x 139 mm **Mount Position** Invertible: Ceiling or Desktop\*9 Invertible: Ceiling or Desktop\*5 ±110° (manual) Pan Range Tilt Range\*10 -30° to 210° -30° to 210° -30° to 210° -30° to 210° -30° to 90° -30° to 90° -30° to 90° ±25° (manual) -30°to 210° ximum speed during manual: 0.08°/s to 180°/s Maximum speed during manual: 0.08°/s to 180°/s Naximum speed during manual: 0.08°/s to 180°/s Maximum speed during manual: 0.08°/s to 180°/s Maximum speed during manual: 0.08°/s to 180°/s Naximum speed during manual: 0.08°/s to 180°/s Maximum speed during manual: 100°/s Naximum speed during manual: 0.08°/s to 180°/s Pan / Tilt Speed 3 speed mode installed\*11 3 speed mode installed\*11 3 speed mode installed\*11 Maximum speed during preset: 300°/s Maximum speed during preset: 200°/s\*12 Maximum speed during preset: 300°/s Maximum speed during preset: 300°/s 3 speed mode installed\*11 NC35 or less (Nomal use) NC40 or less (60°/s or less) NC25 or less NC45 or less Operation Noise NC35 or less NC35 or less NC25 or less NC25 or less NC25 or less (P/T standstill) NC55 or less (100°/s or higher) **New Direct Drive System New PTZ Mechanism** (Built-in optical encoder) **Video Output** 12G-SDI ./\*13 √\*13,14 √\*13 √\*13 √\*13 √\*13 √\*13 √\*13 3G-SDI (AW-UE50W/K) HDMI **USB (UVC compatible)** USB2.0 Type-C USB2.0 Type-C USB2.0 Type-C USB3.0 (5G moblie Router with USB Tethering Support) **SMPTE ST 2110** √\*<sup>2</sup> SRT NDI® High Bandwidth NDI® High Bandwidth NDI® High Bandwidth NDI® HX2 NDI® High Bandwidth NDI®\*15 NDI® HX2 (AW-UE50, AW-UE40) NDI® embedded bridge NDI® HX2 NDI® HX2 NDI® HX2 NDI® HX2 RTMP/RTMPS RTSP/RTP etc. √\*16 √\*16 **Optical Fiber** Browser (PC/Mac/Mobile) via IP AW-RP150 / AW-RP60 AW-RP150 / AW-RP60 Controller / Swhitcher Supported\*7 AW-RP150 / AW-RP60\*17 AV-UHS500 AV-UHS500 AV-UHS500 AV-UHS500 AV-UHS500 AV-UHS500 AV-UHS500 AV-UHS500 IR Remote Control\*7 AW-RM50AG AW-RM50AG AW-RM50AC AW-RM50AG AW-RM50AG AW-RM50AG AW-RM50AC AW-RM50AG AK-HRP1010GJ / AK-HRP1015GJ AK-HRP1010GJ\*19 / AK-HRP1015GJ\*19 AK-HRP1010GJ / AK-HRP1015GJ AK-HRP1010GJ / AK-HRP1015GJ AK-HRP1010GJ/AK-HRP1015GJ AK-HRP1010GJ / AK-HRP1015GJ AK-HRP1010GJ / AK-HRP1015GJ AK-HRP1010GJ / AK-HRP250GJ AK-HRP250GJ\*19 AK-HRP250GI AK-HRP250GI AK-HRP250GI AK-HRP250GJ AK-HRP250GJ\*<sup>20</sup> Software\*7 **Auto Tracking Software Key** AW-SF100/AW-SF200 (Additional Fee) (Additional Fee) (Additional Fee) (Additional Fee) (Additional Fee) (Additional Fee) Advanced Auto Framing Media (Additional Fee) (Additional Fee) (Additional Fee) (Additional Fee) Production Software Key Suite Visual Preset Software Key (Additional Fee) Video Mixer Software Key (Additional Fee) SMPTE ST 2110 Activation Software Key AW-SFU60 (Additional Fee) PTZ Virtual USB Driver **Features** IP Streaming **Image Stabilization** Optical (O.I.S.), Electronic (E.I.S.)\*2° Optical (O.I.S.), Electronic (E.I.S.)\*21, D.I.S.S. Optical (O.I.S.), Electronic (E.I.S.)\*2 Optical Optical Optical Optical Night Mode (for IR) Dynamic Range Stretch (DRS) Audio Input / Embedding (XLR x 2) Internal Mic (Audio On/Off: Available) **Color Temperature Adjustment** Up to 100 High Dynamic Range (HDR) (support BT.2020) (support BT.2020) (support BT.2020) V-Log Fanless Design Through, 1/4, 1/16, 1/64 Through, 1/4, 1/16, 1/64 Through, 1/4, 1/16, 1/64 **Built-in ND Filters** Through, 1/4, 1/16, 1/64 Through, 1/4, 1/16, 1/64 Through, 1/4, 1/16, 1/64 **Optical Low-pass Filter** Genlock Digital Noise Reduction (DNR) Equipped with New Image Precessing Engine High-Speed Pan / Tilt Mode\*22 **HD Cropping** \_ (Cropping zoom is available.) (Cropping zoom is available.) (Cropping zoom is available.) AR / VR Systems FreeD\*23 FreeD\*23 FreeD\*23 FreeD\*23 FreeD\*23 **Privacy Mode** Tally Lamp Front & Rear Tally / Red, Green, Yellov Red, Green Red, Green Red, Green Red. Green Red Red USB: Video Conference mode\*24 **Waveform Display** Horizontal Level Gauge **Built-in Auto Tracking** Auto Framing feature\*25 **MSRP** \*1: JPEG logo by Masahito TAKIZAWA is licensed under Creative Commons Attribution-NoDerivatives 4.0 International Public License with disclaimer of warranties. The licensed with the Software Key AW-SFU60 (sold separately). \*3: Microsoft and Microsoft Teams are trademarks or registered trademarks or

As of Aprir, 2025

Microsoft Corporation in the United States and/or other countries. \*4: Effective size. \*5: LDC is the abbreviation for Learn United States and of the pan or tilt position, the camera may be reflected in the image. \*11: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode. \*12: TILT 140 °/s. \*13: HD output is available from Video Format. \*14: Embedded audio is not supported. \*15: NDI\* is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries. \*16: SFP+ module purchased separately. Please reference brochure for recommended models. \*17: Unlike when other PTZ Cameras are connected, the display corresponds to the AW-UE40W/K, AW-UE50W/K, AW-UE50W/K, AW-UE50W/K, AW-UE50W/K, Systems. Camera pan, tilt, zoom and focus information required for uses such as AR/VR composition is output by devices that support this protocol. \*24: USB:Video Conference mode for using Zoom. When using this mode, the tally lamp lights blue. \*25: May require camera firmware or Media Production Suite update.

### 4K / HD Integrated Camera

#### High-end

4K PTZ Camera for an era of enhanced creativity and the pursuit of visual expression 20x

**4**K

HDR ST 2110

20x

24x

ND.



4K Integrated Camera AW-UE160W/K

**NDI** 

**New Standard for Professional Video Expressiveness and Operational Versatility** 



4K Integrated Camera AW-UE150AW/AK

**HD PTZ Camera that enables high-quality** video production even in dark environments



**HD Integrated Camera** AW-HE145W/K •EU and US only model

4K 60p/50p\*3 NDI® High Bandwidth & SRT supported PTZ Camera with a compact body and a wide range of features



4K Integrated Camera AW-UE100W/K

#### Standard

Models to respond to a wide range of video production needs, such as recording of reality shows and events

24x

NDI.



4K Integrated Camera AW-UE80W/K

Standard models suitable for use in online classes and briefing sessions



4K Integrated Camera AW-ŬE50W/K AW-UE40W/K



4K Integrated Camera AW-ŬE30W/K

Compact 4K entry model suitable for use in meeting rooms and classrooms with limited space



4K Integrated Camera AW-UE20W/K

Compact 4K PTZ Camera equipped with an ultra-wide-angle lens with a 111° field of view and perfect for fixed point shooting



4K Integrated Camera AW-UE4WG/KG

Certified for Microsoft Teams

4K/60p compatible, high resolution to prevent missed shots. Outdoor model that can shoot in any external environment



24x 4K **IP65** 

4K Outdoor Integrated Camera **AW-UR100** 

## IT/IP Platform KAIROS\*5



- GPU/CPU-Based Live Video Production Platform with **High Scalability**
- Flexible I/O Numbers, Video Formats, IP protocols and Basebands
- Freely Expression by Unlimited Number of MEs and Output Aspect Ratio

IT/IP Platform KAIROS web site (https://pro-av.panasonic.net/en/products/it\_ip\_platform/)

20x



**4**K

HDR

ST 2110

#### Workflow Tools / Software

#### Multi Purpose Camera

Box-style 4K camera with high-sensitivity, large-format sensor supporting PTZ common control protocols



HDR

NEW 4K Multi Purpose Camera AW-UB50



HDR

**NEW** 4K Multi Purpose Camera AW-UB10

#### Remote Camera Controller / Wireless Remote Control

Remote Controller with high operability ensured through touch-panel GUI monitor and a new type of joystick



Remote Camera Controller **AW-RP150** 

Equipped with a GUI menu screen for clear visibility and a joystick for intuitive control



Remote Camera Controller AW-RP60



Infrared Wireless Remote Control AW-RM50AG

#### Switcher

4K/12G-SDI compatible compact integrated live switcher with high performance and easy operation



NDI.

Live Switcher AV-UHS500 distribution and webinars



Broadcast-quality video production with 10bit

processing and easy operation. Active in streaming

Compact Live Switcher

AV-HSW10

#### Remote Operation Panel (ROP)



These compact operation panels also support PoE\* and IP control

\*Abbreviation of Power over Ethernet.

Remote Operation Panel (ROP) AK-HRP1010GJ AK-HRP1015GJ\*6



Compact operation panel also compatible with Studio Handy Cameras

Remote Operation Panel (ROP)

AK-HRP250GJ

- For more information about controllers, please visit here (https://pro-av.panasonic.net/en/products/compatibility\_chart/).
- If you need information about Third Party Products, please visit each products' web site (https://pro-av.panasonic.net/en/support/).

#### Software

Plug-ins (Additional Fe

#### Media Production Suite Free

Software Platform for Smart Operation and Rich Expression

Media Production Suite web site



**Device View** Free Basic Functions Manages network settings and firmware updates

**Auto Tracking** 

Automatically tracks speaker and captures clear images Auto Tracking Software Key (license for one camera) AW-SF100 Auto Tracking Software Key (license for multiple cameras)

AW-SF200 / AW-SF202 / AW-SF203

**Visual Preset** Switches subject of multiple PTZ cameras with a single click

Visual Preset Software Key AW-SF300

PTZ Virtual USB Driver Free

Converts PTZ camera on your network into Super Web cam SMPTE ST 2110 Activation Software Key\*7 AW-SFU60

#### PTZ Control Free Controls multiple PTZ cameras from PC Video Mixer

Diverse video compositions created easily with PC Video Mixer Software Key AW-SF400

#### **NEW Advanced Auto Framing** Automatic high-quality, smartly framed video

Advanced Auto Framing Software Key

• AW-SF501 (perpetual license for one framing camera)

- AW-SF503 (perpetual license for three framing cameras)
- AW-SF501W (7-day limited license for one framing camera) • AW-SF503W (7-day limited license for three framing cameras)
- AW-SF501M (30-day limited license for one framing camera)
- AW-SF503M (30-day limited license for three framing cameras)

\*This product is available in limited regions. Please check with your local sales company for availability.



PTZ Camera Systems web site (https://pro-av.panasonic.net/en/products/ptz\_camera\_systems.html)

<sup>\*1:</sup> JPEG logo by Masahito TAKIZAWA is licensed under Creative Commons Attribution-NoDerivatives 4.0 International Public License with disclaimer of warranties. The license can be found at https://jpeg.org/contact.html \*2: To use SMPTE ST 2110, need activation by SMPTE ST 2110 Supported Software Key AW-SFU60 (sold separately). \*3: Actual output format is UHD (3840 x 2160) 59.94p/50p. \*4: Microsoft Teams are trademarks or registered trademarks or follow/K, AW-UE100W/K, AW-UE100W available in some areas, \*7: AW-UE160W/K only