Panasonic

PTZ Camera System Lineup



PTZ Camera System Specification Comparison

As of Aprir, 2025 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° (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° (W) to 3° (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° (W) to 3.8° (T) 81.8° (W) to 3.8° (T) 81.8° (W) to 3.8° (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** √*² 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*²⁰ 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 license can be found at https://jpeg.org/contact.html *2: To use SMPTE ST 2110, activation is needed with the Software (key AW-SFU60 (sold separately). *3: Microsoft and Microsoft Teams are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. *4: Effective size. *5: LDC is the abbreviation for Lens Distortion Correction. *6: HDMI output. *7: See the Panasonic mebsite for information on Optional Products / Software (https://pro-av.panasonic.net/en/support/#Compatibility-Chart). *8: Excluding mount bracket. *9: To ensure safety, the unit must be secured using the mount bracket supplied. *10: Depending on 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 tas a trademarks or registered trademarks or formation on Optional Products. *10: Depending on 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 tas 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-UE4WG/KG menu structure. *18: IP only. *19: Future support planned. *20: Only AW-UE50W/K, AW-UE40W/K. *21: This EIS works for the roll direction. *22: High-speed mode speeds vary by model. *23: A protocol that outputs camera trac

4K / HD Integrated Camera

High-end

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



4K

HDR ST 2110

NDI

4K Integrated Camera AW-UE160W/K

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

24x

ND.



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

12x



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

20x

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/)



4K

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 processing and easy operation. Active in streaming distribution and webinars

Broadcast-quality video production with 10bit



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

Visual Preset

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

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 Video Mixer

PTZ Control Free

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

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

Controls multiple PTZ cameras from PC

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)



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