

Panasonic

PTZ Camera System Lineup



PTZ Camera System Specification Comparison

As of October, 2024

	High-end				Standard			Entry		Outdoor	
Model	AW-UE160W/K	AW-UE150W/K	AW-HE145W/K	AW-UE100W/K	AW-UE80W/K	AW-UE50W/K AW-UE40W/K AW-UE30W/K	AW-UE20W/K	AW-UE4W/KG	AW-UR100		
Camera Body Color	Black (K) or Pearl White (W)	Black (K) or Pearl White (W)	Black (K) or Pearl White (W)	Black (K) or Pearl White (W)	Black (K) or White (W)	Black (K) or White (W)	Black (K) or White (W)	Black (K) or White (W)	Silver		
General											
Sensor	1-type (1")*4 4K MOS	1-type (1") 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	1/2.8-type (1/2.8") 4K MOS	1/2.5-type (1/2.5") 4K MOS	1/2.5-type (1/2.5") 4K MOS	1/2.5-type 4K MOS	
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	Approx. 8.29 megapixels	
Optical Zoom	20x	20x	20x	24x	24x	24x (AW-UE50, AW-UE40) 20x (AW-UE30)	12x	-	-	24x	
i.Zoom	UHD 24x, FHD 32x	UHD 24x, FHD 32x	FHD 32x	UHD 28x, FHD 36x	UHD 28x, FHD 36x	UHD 28x, FHD 36x	Approx. 16x	-	-	UHD 28x, FHD 36x	
Digital Zoom	10x	10x	10x	10x	10x	10x	4x	4x	4x	10x	
FOV	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)	71° (W) to 6° (T)	111° (LDC OFF)*5	75° (LDC OFF)*5	74.1° (W) to 3.3° (T)	
	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)	43° (W) to 3° (T)	75° (LDC OFF)*5	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	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Single focus	Auto / Manual	
Horizontal Resolution	4K: 1,600 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area)	4K: 2,000 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area)	HD: 1,000 TV lines Typ (Center area)	4K: 1,500 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area)	4K: 1,500 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area)	4K: 1,500 TV lines Typ (Center area) HD: 1,000 TV lines Typ (Center area)	4K: 1,400 TV lines Typ (Center area) HD: 900 TV lines Typ (Center area)	4K: 1,400 TV lines Typ (Center area) HD: 900 TV lines Typ (Center area)	4K: 1,400 TV lines Typ (Center area) HD: 900 TV lines Typ (Center area)*6	4K: 1,500 TV lines Typ (Center area)	
Standard Sensitivity	F14 / 2,000 lx (Low Light) F11 / 2,000 lx (Normal)	F12 / 2,000 lx (High Sens) F9 / 2,000 lx (Normal)	F12 / 2,000 lx (High Sens) F9 / 2,000 lx (Normal)	F5.6 / 2,000 lx (High Sens) F4 / 2,000 lx (Normal)	-	-	-	-	-	-	
Gain	Auto, -6 dB to 12 dB (1 dB step)	Auto, -3 dB to 36 dB (1 dB step) (Super Gain function equipped: 37 dB to 42 dB)	Auto, -3 dB to 36 dB (1 dB step) (Super Gain function equipped: 37 dB to 42 dB)	Auto, 0 dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB)	Auto, 0 dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB)	Auto, 0 dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB)	Auto, 0 dB to 42 dB (3 dB step)	Auto, 0 dB to 42 dB (3 dB step)	Auto, 0 dB to 42 dB (3 dB step)	Auto, 0 dB to 36 dB (1 dB step) (Super Gain function equipped: 37 dB to 42 dB)	
Control	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR / USB	Serial / IP / IR / USB	IP / IR / USB	IP / IR / USB	Serial / IP / IR	
Power	PoE+*7 / XLR	PoE+*7 / XLR	PoE+*7 / XLR	PoE+*7 / AC	PoE+*7 / AC	PoE+*7 / AC	PoE+*7 / AC	PoE+*7 / USB	PoE+*7 / USB	PoE+*7 / XLR	
Current Consumption	5.0 A (XLR) 1.5 A (PoE+)	4.0 A (XLR) 1.2 A (PoE+)	4.0 A (XLR) 1.2 A (PoE+)	3.0 A (AC) 1.0 A (PoE+)	3.0 A (AC) 1.0 A (PoE+)	1.8 A (AC) 0.6 A (PoE+)	1.3 A (AC) 0.4 A (PoE+)	1.0 A (USB) 0.2 A (PoE)	1.0 A (USB) 0.2 A (PoE)	3.1 A to 5.5 A (DC) 1.2 A (PoE+)	
Weight*8	Approx. 4.6 kg (10.14 lbs)	Approx. 4.2 kg (9.24 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. 0.5 kg (1.1 lb)	Approx. 9.0 kg (19.84 lb)	
Dimensions (W x H x D)	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	170.0 mm x 211.0 mm x 171.0 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	123 mm x 131 mm x 139 mm	258.0 mm x 367.0 mm x 392.0 mm	
Mount Position	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	Invertible: Ceiling or Desktop*9	
PTZ											
Pan Range	± 175°	± 175°	± 175°	± 175°	± 175°	± 175°	± 170°	± 110° (manual)	± 110° (manual)	± 175°	
Tilt Range*10	-30° to 210°	-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°	
Pan / Tilt Speed	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed*11	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed*11	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed*11	Maximum speed during manual: 0.08°/s to 180°/s Maximum speed during preset: 300°/s	Maximum speed during manual: 0.08°/s to 180°/s Maximum speed during preset: 300°/s	Maximum speed during manual: 0.08°/s to 180°/s Maximum speed during preset: 300°/s	Maximum speed during manual: 0.08°/s to 180°/s Maximum speed during preset: 200°/s*12	Maximum speed during manual: 100°/s Maximum speed during preset: 200°/s*12	-	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed*11	
Operation Noise	NC35 or less (Nomal use) NC25 or less (P/T standstill)	NC35 or less	NC35 or less	NC25 or less	NC25 or less	NC25 or less	NC25 or less	NC40 or less (60°/s or less) NC55 or less (100°/s or higher)	-	NC45 or less	
New Direct Drive System	-	-	-	✓	✓	✓	✓	-	-	-	
New PTZ Mechanism	✓ (Built-in optical encoder)	-	-	-	-	-	-	-	-	-	
Video Output											
12G-SDI	✓	✓	-	✓	-	-	-	-	-	✓	
3G-SDI	✓*13	✓*13	✓*13	✓*13	✓*13	✓*13 (AW-UE50W/K)	✓*13,14	-	-	✓*13	
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	
USB (UVC compatible)	-	-	-	-	-	USB2.0 Type-C	USB2.0 Type-C	USB2.0 Type-C	USB2.0 Type-C	-	
USB (5G mobile Router with USB Tethering Support)	✓ USB3.0	-	-	-	-	-	-	-	-	-	
IP	SMPTE ST 2110	✓*2	-	-	-	-	-	-	-	-	
	SRT	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	NDI*15	NDI* High Bandwidth NDI* HX2	NDI* HX2	NDI* HX2	NDI* High Bandwidth NDI* HX2	NDI* High Bandwidth NDI* HX2	NDI* HX2 (AW-UE50, AW-UE40)	-	-	NDI* High Bandwidth NDI* HX2	
	RTMP/RTMPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RTSP/RTP etc.	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Optical Fiber	✓*16	✓*16	-	-	-	-	-	-	-	✓*16	
Control											
Browser (PC/Mac/Mobile) via IP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
USB	-	-	-	-	-	✓	✓	✓	✓	-	
Controller / Switchover Supported*7	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500*17	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60 AV-UH5500	AW-RP150 / AW-RP60*18	AW-RP150 / AW-RP60 AV-UH5500	
IR Remote Control*7	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	-	
Remote Operation Panel (ROP/RCP)*7*19	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	AK-HRP1010GJ*17 / AK-HRP1015GJ*17 AK-HRP250GJ*17	-	AK-HRP1010GJ / AK-HRP250GJ	AK-HRP1010GJ*17 / AK-HRP1015GJ*17 AK-HRP250GJ*17	
Software*7											
Media Production Suite	Basic Functions	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Auto Tracking Software Key AW-SF100/AW-SF200	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	-	-	-
	Advanced Auto Framing Software Key	✓ (Additional Fee)	✓ (Additional Fee)	-	✓ (Additional Fee)	✓ (Additional Fee)	-	-	-	-	-
	Visual Preset Software Key AW-SF300	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)
	Video Mixer Software Key AW-SF400G	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (Additional Fee)	✓ (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.)*20	Optical	Optical	Optical (O.I.S.), Electronic (E.I.S.)*20	Optical	Optical	Optical	-	-	Optical (O.I.S.), Electronic (E.I.S.)*20, D.I.S.S.	
Night Mode (for IR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dynamic Range Stretch (DRS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Audio Input / Embedding	✓ (XLR x 2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Internal Mic	-	-	-	-	-	-	-	✓ (Audio On/Off: Available)	-	-	
Color Temperature Adjustment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Presets	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	Up to 100	
High Dynamic Range (HDR)	✓ (support BT.2020)	✓ (support BT.2020)	✓ (support BT.2020)	-	-	-	-	-	-	-	
V-Log	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Fanless Design	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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	Through, 1/4, 1/16, 1/64	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 Processing Engine)	✓	✓	✓	✓	✓	✓	✓	✓	✓	
High-Speed Pan / Tilt Mode*21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
HD Cropping	✓ (Cropping zoom is available.)	✓	-	✓ (Cropping zoom is available.)	-	-	-	-	-	✓	
AR / VR Systems	FreeD*22	FreeD*22	-	FreeD*22	FreeD*22	FreeD*22	-	-	-	FreeD*22	
Privacy Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Tally Lamp	Front & Rear Tally / Red, Green, Yellow	Red, Green	Red, Green	Red, Green	Red, Green	Red, Green	Red	Red	Red	-	
USB: Video Conference mode*23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Waveform Display	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Horizontal Level Gauge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Built-in Auto Tracking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Auto Framing feature*24	✓*25	-	-	-	-	-	-	-	-	-	
MSRP											

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4K / HD Integrated Camera

High-end

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



Optical Zoom 20x



ST 2110



4K Integrated Camera
AW-UE160W/K

4K 60p/50p*3 output, high-magnification zoom and wide-angle shooting for flexible video production



Optical Zoom 20x



4K Integrated Camera
AW-UE150W/K

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



Optical Zoom 20x



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



Optical Zoom 24x



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



Optical Zoom 24x



4K Integrated Camera
AW-UE80W/K

Standard models suitable for use in online classes and briefing sessions



Optical Zoom 24x



4K Integrated Camera
AW-UE50W/K
AW-UE40W/K

Optical Zoom 24x



Optical Zoom 20x



4K Integrated Camera
AW-UE30W/K

Entry

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



Optical Zoom 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



Optical Zoom 24x



4K Integrated Camera
AW-UE4WG/KG

*4
Certified for Microsoft Teams

For outdoor use

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



Optical Zoom 24x



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/)

Workflow Tools / Software

Multi Purpose Camera

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



NEW 4K Multi Purpose Camera
AW-UB50

Scheduled for release in CY2024 fourth quarter



NEW 4K Multi Purpose Camera
AW-UB10

Scheduled for release in CY2024 fourth quarter

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



Live Switcher
AV-UHS500

Broadcast-quality video production with 10bit processing and easy operation. Active in streaming distribution and webinars



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

Media Production Suite **Free**

Software Platform for Smart Operation and Rich Expression

Media Production Suite web site
(<https://pro-av.panasonic.net/en/software/mps/>)



Basic Functions	Device View Free Manages network settings and firmware updates	PTZ Control Free Controls multiple PTZ cameras from PC
Plug-ins (Additional Fee)	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 (2 additional licenses) AW-SF203 (3 additional licenses)	Visual Preset Switches subject of multiple PTZ cameras with a single click Visual Preset Software Key AW-SF300 Video Mixer Diverse video compositions created easily with PC Video Mixer Software Key AW-SF400
	PTZ Virtual USB Driver Free Converts PTZ camera on your network into Super Web cam SMPTe ST 2110 Activation Software Key*7 AW-SFU60	NEW Advanced Auto Framing Automatic high-quality, smartly framed video Advanced Auto Framing Software Key Scheduled for release in CY2025 second quarter



PTZ Camera Systems web site (https://pro-av.panasonic.net/en/products/ptz_camera_systems.html)

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