

# Panasonic

## PTZ Camera System Lineup



# PTZ Camera System Specification Comparison

As of March, 2026

	High-end				Standard			Entry		Outdoor
						 AW-UE40W/K AW-UE30W/K				
Model	AW-UE160W/K	AW-UE150AW/AK	AW-HE145W/K	AW-UE100W/K	AW-UE80W/K	AW-UE50W/K AW-UE40W/K AW-UE30W/K	AW-UE20W/K	AW-UE4WG/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") <sup>5</sup> 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 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	
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	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) <sup>6</sup>	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) <sup>6</sup>	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) <sup>6</sup>	
Focus	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: 1,000 TV lines Typ (Center area)	4K: 1,400 TV lines Typ (Center area) HD: 900 TV lines Typ (Center area) <sup>7</sup>	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 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	Serial / IP / IR	
Power	PoE+ <sup>8</sup> / XLR	PoE+ <sup>8</sup> / XLR	PoE+ <sup>8</sup> / XLR	PoE+ <sup>8</sup> / AC	PoE+ <sup>8</sup> / AC	PoE+ <sup>8</sup> / AC	PoE+ <sup>8</sup> / AC	PoE+ <sup>8</sup> / USB	PoE+ <sup>8</sup> / 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)	3.1 A to 5.5 A (DC) 1.2 A (PoE+)	
Weight <sup>9</sup>	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)	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	258.0 mm x 367.0 mm x 392.0 mm	
Mount Position	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	Invertible: Ceiling or Desktop <sup>10</sup>	
PTZ										
Pan Range	± 175°	± 175°	± 175°	± 175°	± 175°	± 175°	± 170°	± 110° (manual)	± 175°	
Tilt Range <sup>11</sup>	-30° to 210°	-30° to 210°	-30° to 210°	-30° to 210°	-30° to 210°	-30° to 90°	-30° to 90°	-30° to 90°	-30° to 210°	
Pan / Tilt Speed	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed <sup>12</sup>	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed <sup>12</sup>	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed <sup>12</sup>	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 <sup>13</sup>	-	Maximum speed during manual: 0.08°/s to 180°/s 3 speed mode installed <sup>12</sup>	
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	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	✓ <sup>14</sup>	✓ <sup>14</sup>	✓ <sup>3,14</sup>	✓ <sup>14</sup>	✓ <sup>14</sup>	✓ <sup>14</sup> (AW-UE50W/K)	✓ <sup>14,15</sup>	-	✓ <sup>14</sup>	
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	-	
USB (UVC compatible)	-	-	-	-	-	USB2.0 Type-C	USB2.0 Type-C	USB2.0 Type-C	-	
USB (5G mobile Router with USB Tethering Support)	✓ USB3.0	-	-	-	-	-	-	-	-	
IP	SMPT E ST 2110	✓ <sup>2</sup>	-	-	-	-	-	-	-	
	SRT	✓	✓	✓	✓	✓	✓	✓	✓	
	NDI <sup>®</sup> <sup>16</sup>	NDI <sup>®</sup> High Bandwidth NDI <sup>®</sup> HX2 NDI <sup>®</sup> embedded bridge	NDI <sup>®</sup> High Bandwidth NDI <sup>®</sup> HX2	NDI <sup>®</sup> HX2	NDI <sup>®</sup> High Bandwidth NDI <sup>®</sup> HX2	NDI <sup>®</sup> High Bandwidth NDI <sup>®</sup> HX2	NDI <sup>®</sup> HX2 (AW-UE50, AW-UE40)	-	NDI <sup>®</sup> High Bandwidth NDI <sup>®</sup> HX2	
	RTMP/RTMPS	✓	✓	✓	✓	✓	✓	✓	✓	
RTSP/RTSP etc.	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Optical Fiber	✓ <sup>17</sup>	✓ <sup>17</sup>	-	-	-	-	-	-	✓ <sup>17</sup>	
Control										
Browser (PC/Mac/Mobile) via IP	✓	✓	✓	✓	✓	✓	✓	✓	✓	
USB	-	-	-	-	-	✓	✓	✓	-	
Controller Switcher Supported <sup>18</sup>	AW-RP200GJ / AW-RP150 AW-RP60 / AV-UH5500 AV-HSW10	AW-RP200GJ / AW-RP150 AW-RP60 / AV-UH5500 AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	AW-RP150 / AW-RP60 AV-HSW10	AW-RP150 / AW-RP60 AV-UH5500 / AV-HSW10	
IR Remote Control <sup>18</sup>	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	AW-RM50AG	-	
Remote Operation Panel (ROP) <sup>18,19</sup>	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 / AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1015GJ AK-HRP250GJ	
Software <sup>18</sup>										
Media Production Suite	Basic Functions	✓	✓	✓	✓	✓	✓	✓	✓	
	Auto Tracking (Additional Fee)	✓	✓	✓	✓	✓	✓	✓ <sup>21</sup>	✓	
	Visual Preset (Additional Fee)	✓	✓	✓	✓	✓	✓	✓	✓	
	Video Mixer (Additional Fee)	✓	✓	✓	✓	✓	✓	✓	✓	
	Advanced Auto Framing (Additional Fee)	✓	✓	✓	✓	✓	-	-	✓	
	Image Adjust Pro (Additional Fee)	✓	✓	-	-	-	-	-	-	
PTZ Virtual USB Driver	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Features										
IP Streaming	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Image Stabilization	Optical (O.I.S.), Electronic (E.I.S.) <sup>22</sup>	Optical	Optical	Optical (O.I.S.), Electronic (E.I.S.) <sup>22</sup>	Optical	Optical	-	-	Optical (O.I.S.), Electronic (E.I.S.) <sup>22</sup> , 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	
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 <sup>23</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
HD Cropping	✓ (Cropping zoom is available.)	✓ (Cropping zoom is available.)	-	✓ (Cropping zoom is available.)	-	-	-	-	✓	
AR / VR Systems	FreeD <sup>24</sup>	FreeD <sup>24</sup>	-	FreeD <sup>24</sup>	FreeD <sup>24</sup>	-	-	-	FreeD <sup>24</sup>	
Privacy Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Tally Lamp	✓ Front & Rear Tally / Red, Green, Yellow	✓ Red, Green, Yellow	✓ Red, Green	✓ Red, Green	✓ Red, Green	✓ Red, Green	✓ Red	✓ Red	-	
USB: Video Conference mode <sup>25</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Waveform Display	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Horizontal Level Gauge	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Built-in Auto Tracking	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Auto Framing feature <sup>26</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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**

New Standard for Professional Video Expressiveness and Operational Versatility



Optical Zoom 20x



4K Integrated Camera  
**AW-UE150AW/AK**

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



Optical Zoom 20x



HD Integrated Camera  
**AW-HE145W/K** \*3

\*Available in limited regions

4K 60p/50p\*4 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 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



4K Integrated Camera  
**AW-UE4WG/KG**

\*5  
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\*6



- 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/](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



4K Multi Purpose Camera  
**AW-UB50**



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

### Remote Camera Controller

Next-generation remote camera controller with macro functions for simplified complex operations and dual L/R joysticks for enhanced usability

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

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



**NEW**  
Remote Camera Controller  
**AW-RP200GJ**



Remote Camera Controller  
**AW-RP150**



Remote Camera Controller  
**AW-RP60**

### Switcher



**NDI**  
Live Switcher  
**AV-UHS500**



**NDI**  
Compact Live Switcher  
**AV-HSW10**

### Wireless Remote Control



Infrared Wireless Remote Control  
**AW-RM50AG**

### Remote Operation Panel (ROP)



Remote Operation Panel (ROP)  
**AK-HRP1010GJ**  
**AK-HRP1015GJ**\*7



Remote Operation Panel (ROP)  
**AK-HRP250GJ**

- For more information about controllers, please visit here ([https://pro-av.panasonic.net/en/products/compatibility\\_chart/](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/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 <b>Free</b>	PTZ Control <b>Free</b>
	Manages network settings and firmware updates	Controls multiple PTZ cameras from PC
Plug-ins (Additional Fee)	<b>Auto Tracking</b> Automatically tracks speaker and captures clear images Auto Tracking Software Key (license for one camera) <b>AW-SF100</b> Auto Tracking Software Key (license for multiple cameras) <b>AW-SF200 / AW-SF202 / AW-SF203</b> (2 additional licenses) (3 additional licenses)	<b>Advanced Auto Framing</b> Automatic high-quality, smartly framed video Advanced Auto Framing Software Key • <b>AW-SF501</b> (perpetual license for one framing camera) • <b>AW-SF503</b> (perpetual license for three framing cameras) • <b>AW-SF501W</b> (7-day limited license for one framing camera) • <b>AW-SF503W</b> (7-day limited license for three framing cameras) • <b>AW-SF501M</b> (30-day limited license for one framing camera) • <b>AW-SF503M</b> (30-day limited license for three framing cameras) *This product is available in limited regions. Please check with your local sales company for availability.
	<b>Visual Preset</b> Switches subject of multiple PTZ cameras with a single click Visual Preset Software Key <b>AW-SF300</b>	<b>NEW Image Adjust Pro</b> Adjust the image quality of different camera models and multiple units Image Adjust Pro Software Key <b>AW-SF600</b>
	<b>Video Mixer</b> Diverse video compositions created easily with PC Video Mixer Software Key <b>AW-SF400</b>	

**PTZ Virtual USB Driver **Free****  
Converts PTZ camera on your network into Super Web cam

SMPTE ST 2110 Activation Software Key\*8  
**AW-SFU60**



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

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