Panasonic

PTZ Camera System Lineup



			High	-end		Stan	dard		Entry	As of June, 2024
		JPEG *1*2	PROFESSIONAL	EU and US only model FHD	4K	4K	PROFESSIONAL ZOOM Certified	4K zoom	FHD zoom Certified	Zoom Certified for *3 Microsoft Teams
		xs HDR	HDR (I)		PADESIDIAL	PROFESSIONAL	PROFESSIONAE Certified	PROFESSIONAL	Certified	DROP ESSIONAL Certified
		55							33	
	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-HE20W/K	AW-UE4WG/KG
Ca	mera 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)	Black (K) or White (W)
	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	1/2.8-type (1/2.8") MOS	1/2.5-type (1/2.5") 4K MOS
	Optical Zoom	Approx. 9.62 megapixels	Approx. 20.18 megapixels 20x	Approx. 20.18 megapixels 20x	Approx. 8.49 megapixels	Approx. 8.49 megapixels 24x	Approx. 8.49 megapixels 24x (AW-UE50, AW-UE40) 20x (AW-UE30)	Approx. 8.46 megapixels	Approx. 8.46 megapixels 12x	Approx. 8.49 megapixels
	i.Zoom Digital Zoom	UHD 24x, FHD 32x	UHD 24x, FHD 32x 10x	FHD 32x 10x	UHD 28x, FHD 36x 10x	UHD 28x, FHD 36x 10x	UHD 28x, FHD 36x 10x	Approx. 16x	Approx. 16x	
Horizontal FOV Vertical		75.1° (W) to 4.0° (T) 46.7° (W) to 2.3° (T)	75.1° (W) to 4.0° (T) 46.7° (W) to 2.3° (T)	75.1° (W) to 4.0° (T) 46.7° (W) to 2.3° (T)	74.1° (W) to 3.3° (T) 46.0° (W) to 1.9° (T)	74.1° (W) to 3.3° (T) 46.0° (W) to 1.9° (T)	74.1° (W) to 3.3° (T) 46.0° (W) to 1.9° (T)	71° (W) to 6° (T) 43° (W) to 3° (T)	71° (W) to 6° (T) 43° (W) to 3° (T)	111° (LDC OFF)*5 75° (LDC OFF)*5
	Diagonal Focus	82.8° (W) to 4.6° (T) Auto / Manual	82.8° (W) to 4.6° (T) Auto / Manual	82.8° (W) to 4.6° (T) Auto / Manual	81.8° (W) to 3.8° (T) Auto / Manual	81.8° (W) to 3.8° (T) Auto / Manual	81.8° (W) to 3.8° (T) Auto / Manual	79° (W) to 7° (T) Auto / Manual	79° (W) to 7° (T) Auto / Manual	120° (LDC OFF)*5 Single focus
Hor	izontal Resolution	4K:1,600 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)	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 HD: 900 TV lines Typ (Center area)*6
Sta	indard 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) Serial / IP / IR	Auto, -3 dB to 36 dB (1 dB step) (Super Gain function equipped: 37 dB to 42 dB) Serial / IP / IR	Auto, -3 dB to 36 dB (1 dB step) (Super Gain function equipped: 37 dB to 42 dB) Serial / IP / IR	Auto, O dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB) Serial / IP / IR	Auto, O dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB) Serial / IP / IR	Auto, O dB to 36 dB (1 dB step) (Super Gain function installed: 37 dB to 42 dB) Serial / IP / IR / USB	Auto, 0 dB to 42 dB (3 dB step) Serial / IP / IR / USB	Auto, O dB to 42 dB (3 dB step) Serial / IP / IR / USB	Auto, 0 dB to 42 dB (3 dB step)
	Control Power	PoE++*7 / XLR	PoE++*7 / XLR	PoE++*7 / XLR	PoE++*7 / AC	PoE++*7 / AC	PoE+*7 / AC	PoE+*7 / AC	PoE+*7 / AC	PoE*7 / USB
Cur	rent Consumption Weight*8	5.0 A(XLR) 1.5 A(PoE++) Approx. 4.6 kg (10.14 lbs)	4.0 A (XLR) 1.2 A (PoE++) Approx. 4.2 kg (9.24 lbs)	4.0 A (XLR) 1.2 A (PoE++) Approx. 4.1 kg (9.04 lb)	3.0 A (AC) 1.0 A (PoE++) Approx. 2.3 kg (5.06 lb)	3.0 A (AC) 1.0 A (PoE++) Approx. 2.0 kg (4.41 lbs)	1.8 A (AC) 0.6 A (PoE+) Approx.1.8 kg (3.97 lbs)	1.3 A (AC) 0.4 A (PoE+) Approx. 1.9 kg (4.19 lbs)	1.3 A (AC) 0.4 A (PoE+) Approx. 1.9 kg (4.19 lbs)	1.0 A (USB) 0.2 A (PoE) Approx. 0.5 kg (1.1 lb)
	ensions (W x H x D) Mount Position	213.0 mm x 277.0 mm x 240.0 mm Invertible: Ceiling or Desktop*9	213 mm x 267 mm x 219 mm Invertible: Ceiling or Desktop*9	213 mm x 267 mm x 219 mm Invertible: Ceiling or Desktop*9	169.2 mm x 204.6 mm x 170.6 mm	170.0 mm x 211.0 mm x 171.0 mm Invertible: Ceiling or Desktop*9	160.0 mm x 192.1 mm x 166.0 mm Invertible: Ceiling or Desktop*9	165.1 mm x 176.2 mm x 176.1 mm Invertible: Ceiling or Desktop*9	165.1 mm x 176.2 mm x 176.1 mm Invertible: Ceiling or Desktop*9	123 mm x 131 mm x 139 mm
	PTZ Pan Range	± 175°	± 175°	±175°	±175°	±175°	±175°	± 170°	± 170°	±110° (manual)
	Tilt Range* ¹⁰ Pan / Tilt Speed	-30° to 210° Maximum speed during manual: 0.08°/s to 180°/s	-30° to 210° Maximum speed during manual: 0.08°/s to 180°/s	-30° to 210° Maximum speed during manual: 0.08°/s to 180°/s	-30° to 210° Maximum speed during manual: 0.08°/s to 180°/s					
	Operation Noise	3 speed mode installed*11 NC35 or less (Nomal use)	3 speed mode installed*11 NC35 or less	3 speed mode installed*11 NC35 or less	Maximum speed during preset: 300°/s NC25 or less	Maximum speed during preset: 300°/s NC25 or less	Maximum speed during preset: 300°/s NC25 or less	Maximum speed during preset: 200°/s*12 NC40 or less (60°/s or less)	NC40 or less (60°/s or less)	
	Direct Drive System	NC25 or less (P/T standstill) –	-	-	√	/ /	√	NC55 or less (100°/s or higher) –	NC55 or less (100°/s or higher) –	-
	w PTZ Mechanism	√ (Built-in optical encoder)	-	-	-	-	-	-	_	-
V	ideo Output 12G-SDI	√	✓ ·	-	√	-		-	-	-
	3G-SDI HDMI	√*13 ✓	√*13 ✓	√*13 ✓	√*13 ✓	√*13 ✓	√*13 (AW-UE50W/K)	√*13,14 ✓	√*13,14 ✓	-
USB	(UVC compatible)	-	-	_	-	-	√ USB2.0 Type-C	√ USB2.0 Type-C	√ USB2.0 Type-C	√ USB2.0 Type-C
(5G moblie Ro	USB outer with USB Tethering Support)	VSB3.0	-	-	-	-	-	-	_	-
	SMPTE ST 2110 SRT	√*2 ✓	- ✓	- ✓	- ✓	- /	- ✓	-		-
	NDI® High Bandwidth *15	√ 4K	-	-	√ (4K)	(FHD)	-	-	_	-
	NDI® HX	√ NDI® HX, 4K	NDI® HX, FHD A license must be purchased for use.	NDI® HX, FHD A license must be purchased for use.	NDI® HX, FHD	√ NDI® HX, FHD	NDI® HX, FHD A license must be purchased for use. (AW-UE50W/K, AW-UE40W/K)	-	_	-
	RTMP/RTMPS RTSP/RTP etc.	V V	\ \ \	√ √	\/ \/	√ √	✓ ✓	✓ ✓	✓ ✓	√ √
	Optical Fiber Control	√*16	√*16	_	-	-	-	-	_	-
Browser (PC/Mac/Mobile) via IP USB		_	_	_	-	_	√ √	√ √	✓	√ √
	/ Swhitcher Supported*7 Remote Control*7	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500* ¹⁷ AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60 AV-UHS500 AW-RM50AG	AW-RP150 / AW-RP60*18 AW-RM50AG
Remo	te 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* ¹⁷ / AK-HRP1015GJ* ¹⁷ AK-HRP250GJ* ¹⁷	-	-	AK-HRP1010GJ / AK-HRP250GJ
	Software*7 Basic Functions	✓	✓	√	✓	√	√	·	√	✓
Media Production Suite	Auto Tracking Software Key AW-SF100/AW-SF200	(Additional Fee)	(Additional Fee)	√ (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)
	Wideo Mixer Software Key AW-SF400G	√ (Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)	(Additional Fee)
	MPTE ST 2110 ation Software Key AW-SFU60 Virtual USB Driver	(Additional Fee) √	- /	<i>-</i> ✓	_ /	- _	- /	- /	- ✓	_
	Features IP Streaming	✓	✓	√	✓	✓	✓	✓	✓	✓
	age Stabilization ght Mode (for IR)	Optical (O.I.S.), Electronic (E.I.S.)*20	Optical ✓	Optical ✓	Optical (O.I.S.), Electronic (E.I.S.)*20	Optical ✓	Optical –	-	-	-
	c Range Stretch (DRS)	✓ ✓	✓ ✓	√ √	✓ ✓	✓ ✓	✓ ✓	✓ ✓	√ ✓	_
	Internal Mic	(XLR x 2) –	_	_	_	-	-	_	_	(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 D	ynamic Range (HDR)	(support BT.2020)	(support BT.2020)	(support BT.2020)	-	-	-	-	-	-
V-Log Fanless Design		_	√	-	-	<u> </u>	- ✓		- /	
Built-in ND Filters Optical Low-pass Filter		Through, 1/4, 1/16, 1/64	Through, 1/4, 1/16, 1/64 –	-	-	-	-			
Genlock Digital Noise Reduction (DNR)		(Equipped with New Image Precessing Engine)	<i>\</i>	√ √	√ √	✓ ✓	- /	- /		- /
High-Sp	peed Pan / Tilt Mode*21	(Equipped with New Image Precessing Engine)	/	✓	/	√	√	_	_	_
AR / VR Systems		(Cropping zoom is available.) FreeD*22	√ FreeD*22	-	(Cropping zoom is available.) FreeD*22	FreeD*22	-	-	-	-
Privacy Mode		√ √	- /	- _	√ ✓	√ ✓	√ √	√ √	√ √	- /
Tally Lamp USB: Video Conference mode*23		Front & Rear Tally / Red, Green, Yellow —	Red, Green	Red, Green –	Red, Green	Red, Green	Red, Green ✓	Red ✓	Red ✓	Red ✓
Waveform Display Horizontal Level Gauge		✓ ✓	-	-	-	-	-	-	-	-
Built-in Auto Tracking MSRP		-	-	-	-	√	√	-	-	-
*1: JPEG logo	by Masahito TAKIZAWA is lice	nsed under Creative Commons Attril	oution-NoDerivatives 4.0 Internation	al Public License with disclaimer of v	varranties.The license can be found at	t https://jpeg.org/contact.html *2: To	o use SMPTE ST 2110, need activatio	n by SMPTE ST 2110 Supported Softv	ware Key AW-SFU60 (sold separately	y). *3: Microsoft and Microsoft Teams patibility-Chart). *8: Excluding mount

*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 Supported Software Key AW-SFU60 (sold separately). *3: 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 website 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 registered trademark of Vizrt NDI AB in the United States and other countries. *16: SFP+ module purchased separately. Please reference brochure for recommended models. *17: AW-UE30W/K: TBD. *18: Unlike when other PTZ Cameras are connected, the display corresponds to the AW-UE4WG/KG menu structure. *19: IP only. *20: This ElS works for the roll direction. *21: High-speed mode speeds vary by model. *22: A protocol that outputs camera tracking data for AR/VR systems. Camera pan, tilt, zoom and focus information required for uses such as AR/VR composition is output by devices that support this protocol. *23: USB:Video Conference mode is a specific mode for using Zoom. When using this mode, the tally lamp lights blue.

4K / HD Integrated Camera

High-end



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

- The first PTZ Camera to support the SMPTE ST 2110 standard for video transmission over IP networks*3,4
- Industry's first 5G mobile router (with USB tethering support) support for high-speed, high-capacity video transmission
- High sensitivity of F14/2,000 lx, equivalent to a studio camera
 - Supports 2x high-speed output
 - Supports HDMI, 3G-SDI, and IP output (NDI® High Bandwidth*5, NDI® HX, etc.) as well as 12G-SDI output and fiber-optic output

4K Integrated Camera

AW-UE160W/K

High-end

4K 60p/50p*6 output, high-magnification zoom and wide-angle shooting for flexible video production



4K Integrated Camera AW-UE150W/K

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*6 NDI® High Bandwidth & SRT supported PTZ Camera with a compact body and a wide range of features

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



24x **4**K

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-UE30W/K



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





4K Outdoor Integrated Camera AW-UR100

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

12x

12x



4K Integrated Camera AW-UE20W/K

Compact PTZ Camera suitable for use in meeting rooms and classrooms with limited space





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





Microsoft Teams*

Optional Products / Software

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





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



Remote Operation Panel (ROP)

AK-HRP1010GJ AK-HRP1015GJ*8 Compact operation panel also compatible with Studio Handy Cameras

PTZ Virtual USB Driver Free

Super Web cam

Converts PTZ camera on your network into



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 Media Production Suite web site Software Platform for Smart Operation and Rich Expression **Device View** Free PTZ Control Free Manages network settings and firmware updates Controls multiple PTZ cameras from PC **Auto Tracking Visual Preset** Automatically tracks speaker and captures clear images Switches subject of multiple PTZ cameras with a single click Visual Preset Software Key Auto Tracking Software Key (license for one camera) AW-SF300 Plug-ins AW-SF100 Auto Tracking Software Key (license for multiple cameras) **Video Mixer** AW-SF200 Diverse video compositions created easily with PC AW-SF202 (2 additional licenses) Video Mixer Software Key AW-SF203 (3 additional licenses) **AW-SF400**

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



IT/IP Platform KAIROS*10

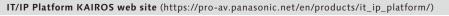
AW-SFU60

SMPTE ST 2110 Activation Software Key*9



- 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







*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, need activation by SMPTE ST 2110 Supported Software Key AW-SFU60 (sold separately). *3: Activation with the separately sold software key AW-SFU60 is required. *4: As of October 2022, according to our research. *5: NDI® is a registered trademarks of Vizrt NDI AB in the United States and other countries. *6: Actual output format is UHD (3840 x 2160) 59.94p/50p. *7: Microsoft and Microsoft Teams are trademarks of registered trademarks of Microsoft Corporation in the United States and/or other countries. *8: Not available in some areas. *9: AW-UE160W/K only. *10: The AW-UE160W/K, AW-UE150W/K, AW-UE100W/K, AW-UE50W/K, AW-UE50W/K, AW-UE40W/K and AW-UR100 are the only PTZ Cameras currently supported.