








PTZ Camera System Lineup



PTZ Camera System Specification Comparison

As of April, 2022

								
BASE MODEL	AW-UE150W/K	AW-UE100W/K	AW-UE80W/K	AW-UE50W/K AW-UE40W/K	AW-UE20W/K	AW-HE20W/K	AW-UE4WG/KG	
Camera Body Color	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)	Black (K) or White (W)	Black (K) or White (W)	
GENERAL								
Sensor	1-type 4K MOS	1/2.5-type 4K MOS	1/2.5-type 4K MOS	1/2.5-type 4K MOS	1/2.8-type 4K MOS	1/2.8-type MOS	1/2.5-type MOS	
Effective Pixels	Approx. 20.18 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.46 megapixels	Approx. 8.46 megapixels	Approx. 8.49 megapixels	
Optical Zoom	20x	24x	24x	24x	12x	12x	—	
i.Zoom	UHD 24x, FHD 32x	UHD 28x, FHD 36x	UHD 28x, FHD 36x	UHD 28x, FHD 36x	Approx. 16x	Approx. 16x	—	
Digital Zoom	10x	10x	10x	10x	4x	4x	4x	
FOV	Horizontal	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)	71° (W) to 6° (T)	111° (LDC OFF) ^{*1}
	Vertical	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)	43° (W) to 3° (T)	75° (LDC OFF) ^{*1}
	Diagonal	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)	79° (W) to 7° (T)	120° (LDC OFF) ^{*1}
Focus	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Single focus	
Horizontal Resolution	4K: 2000 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	4K: 1500 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	4K: 1500 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	4K: 1500 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	4K: 1400 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	HD: 1000 TV lines Typ (Center area)	4K: 1400 TV lines Typ (Center area) ^{*2} HD: 900 TV lines Typ (Center area) ^{*2}	
Minimum Illumination	2 lx	3 lx	3 lx	3 lx	0.4 lx	0.4 lx	4 lx	
Gain	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)	
Control	Serial/IP/IR	Serial/IP/IR	Serial/IP/IR	Serial/IP/IR/USB	Serial/IP/IR/USB	Serial/IP/IR/USB	IP/IR/USB	
Power	PoE++ ^{*3} /XLR	PoE++ ^{*3} /AC	PoE++ ^{*3} /AC	PoE+ ^{*3} /AC	PoE+ ^{*3} /AC	PoE+ ^{*3} /AC	PoE ^{*3} /USB	
Current Consumption	4.0 A (XLR) 1.2 A (PoE++) ^{*4}	3.0 A (AC) 1.0 A (PoE++) ^{*4}	3.0 A (AC) 1.0 A (PoE++) ^{*4}	1.8 A (AC) 0.6 A (PoE+) ^{*5}	1.3 A (AC) 0.4 A (PoE+) ^{*5}	1.3 A (AC) 0.4 A (PoE+) ^{*5}	1.0 A (USB) 0.2 A (PoE) ^{*6}	
Weight ^{*7}	9.24 lbs	5.06 lb	4.41 lbs	3.97 lbs	4.19 lbs	4.19 lbs	1.1 lbs	
Dimensions (W x H x D)	213 mm x 267 mm x 219 mm	169.2 mm x 204.6 mm x 170.6 mm	170 mm x 211 mm x 171 mm	160 mm x 192.1 mm x 166 mm	165.1 mm x 176.2 mm x 176.1 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 ^{*8}	Invertible: Ceiling or Desktop ^{*8}	Invertible: Ceiling or Desktop ^{*8}	Invertible: Ceiling or Desktop ^{*8}	Invertible: Ceiling or Desktop ^{*8}	Invertible: Ceiling or Desktop ^{*8}	Invertible: Ceiling or Desktop ^{*8}	
PTZ								
Pan Range	±175°	±175°	±175°	±175°	±170°	±170°	±110° (manual)	
Tilt Range	-30° to 210° ^{*9}	-30° to 210° ^{*9}	-30° to 90° ^{*9}	-30° to 90° ^{*9}	-30° to 90° ^{*9}	-30° to 90° ^{*9}	±25° (manual)	
Pan/Tilt Speed	Minimum speed 0.08°/s, maximum speed 60°/s or higher Maximum speed is 180°/s in high-speed mode ^{*10}	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 ^{*11} Maximum speed during manual: 100°/s	Maximum speed during preset: 200°/s ^{*11} Maximum speed during manual: 100°/s	Maximum speed during preset: 200°/s ^{*11} Maximum speed during manual: 100°/s	—
Operation Noise	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)	NC40 or less (60°/s or less) NC55 or less (100°/s or higher)	—	
New Direct Drive System	—	✓	✓	✓	—	—	—	
VIDEO OUTPUT								
12G-SDI	✓	✓	—	—	—	—	—	
3G-SDI	✓ (Cropping is available.)	✓ (Cropping is available.)	✓	✓ (AW-UE50W/K)	✓ ^{*12}	✓ ^{*12}	—	
HD-SDI	✓ ^{*13}	✓ ^{*13}	✓ ^{*13}	✓ ^{*13} (AW-UE50W/K)	✓ ^{*12} *13	✓ ^{*12} *13	—	
HDMI	✓	✓	✓	✓	✓	✓	✓	
USB	—	—	—	✓	✓	✓	✓	
IP	SRT ^{*14}	✓	✓	✓	✓	—	—	
	NDI [®] ^{*15}	—	✓ (4K)	✓ (FHD)	—	—	—	
	NDI [®] HX ^{*16}	✓ (NDI [®] HX version 2 ^{*16} , FHD) (A license must be purchased for use.)	✓ (NDI [®] HX version 2 ^{*16} , FHD)	✓ (NDI [®] HX version 2 ^{*16} , FHD)	✓ (NDI [®] HX version 2 ^{*16} , FHD) (A license must be purchased for use.)	—	—	—
	RTMP/RTMPS ^{*17}	✓	✓	✓	✓	✓	✓	✓
	RTSP ^{*18} /RTP ^{*19} etc.	✓	✓	✓	✓	✓	✓	✓
Optical Fiber	✓ ^{*20}	—	—	—	—	—	—	
CONTROL								
Browser (PC/Mac/Mobile) via IP	✓	✓	✓	✓	✓	✓	✓	
USB	—	—	—	✓	✓	✓	✓	
Controller/Switcher Supported ^{*21}	AW-RP150 / AW-RP60 AV-UHS500 / AV-HLC100 ^{*23}	AW-RP150 / AW-RP60 AV-UHS500 / AV-HLC100 ^{*23}	AW-RP150 / AW-RP60 AV-UHS500	AW-RP150 / AW-RP60 AV-UHS500	AW-RP150 / AW-RP60	AW-RP150 / AW-RP60	AW-RP150 / AW-RP60 ^{*22}	
IR Remote Control	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	AW-RM50G ^{*23} / AW-RM50AG	
Remote Operation Panel (ROP/RCP) ^{*24}	AK-HRP1010GJ / AK-HRP1000GJ ^{*25} / AK-HRP1015GJ AK-HRP1005 ^{*23} / AK-HRP250GJ	AK-HRP1010GJ / AK-HRP1000GJ ^{*25} / AK-HRP1015GJ AK-HRP1005 ^{*23} / AK-HRP250GJ	AK-HRP1010GJ ^{*25} / AK-HRP1015GJ ^{*25} AK-HRP1005 ^{*23} / AK-HRP250GJ ^{*25}	AK-HRP1010GJ ^{*25} / AK-HRP1015GJ ^{*25} AK-HRP1005 ^{*23} / AK-HRP250GJ ^{*25}	AK-HRP1015GJ ^{*25}	AK-HRP1015GJ ^{*25}	—	
Software	Fees apply	Auto Tracking/Auto Tracking Server AW-SF100/AW-SF200	✓	✓	✓	— ^{*26}	— ^{*26}	✓ ^{*27}
		Visual Preset Software Key AW-SF300	✓	✓	✓	✓	✓	✓
	Free	PTZ Control Center	✓	✓	✓	✓	✓	✓
		PTZ Virtual USB Driver	✓	✓	✓	✓	✓	✓
EasyIP SetupTool Plus	✓	✓	✓	✓	✓	✓	✓	
FEATURES								
IP Streaming	✓	✓	✓	✓	✓	✓	✓	
Image Stabilization	Optical	Optical (O.I.S.), Electronic (E.I.S.) ^{*28}	Optical	Optical	—	—	—	
Night Mode (for IR)	✓	✓	✓	—	—	—	—	
Dynamic Range Stretch (DRS)	✓	✓	✓	✓	✓	✓	✓	
Audio Input / Embedding	✓	✓	✓	✓	✓	✓	—	
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	
High Dynamic Range (HDR)	✓	—	—	—	—	—	—	
Fanless Design	—	—	—	✓	✓	✓	✓	
Built-in ND Filters	Through, 1/4, 1/16, 1/64, IR Through	Through, 1/4, 1/16, 1/64, IR Through	Through, 1/4, 1/16, 1/64, IR Through	—	—	—	—	
Genlock	✓	✓	✓	—	—	—	—	
Digital Noise Reduction (DNR)	✓	✓	✓	✓	✓	✓	✓	
High-Speed Pan/Tilt Mode ^{*29}	✓	✓	✓	✓	—	—	—	
HD Cropping in 4K Mode	✓	(Cropping zoom is available.)	—	—	—	—	—	
V-Log	✓	—	—	—	—	—	—	
AR/VR Systems	FreeD ^{*30}	FreeD ^{*30}	FreeD ^{*30}	—	—	—	—	
MSRP (BASE MODEL)								

*1: LDC is the abbreviation for Lens Distortion Correction. *2: HDMI output. *3: See the Panasonic website for information on compatible PoE hubs (<https://pro-av.panasonic.net/en/support/#Compatibility-Chart>). *4: Abbreviation of Power over Ethernet Plus. Conforms to IEEE802.3bt. *5: Abbreviation of Power over Ethernet Plus. *6: Abbreviation of Power over Ethernet. *7: Excluding mount bracket. *8: To ensure safety, the unit must be secured using the mount bracket supplied. *9: Depending on the pan or tilt position, the camera may be reflected in the image. *10: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode. *11: TILT 140°/s. *12: Embedded audio is not supported. *13: Not leased line. Use 3G-SDI and choose from Video Format. *14: Abbreviation of Secure Reliable Transport. *15: NDI[®] is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI[®] is a registered trademark of NewTek, Inc. in the United States and other countries. In this instance, NDI[®] is used to indicate low latency with high bandwidth NDI[®]. *16: In this instance, NDI[®]|HX is used to indicate high efficiency low bandwidth NDI[®]|HX. *17: Abbreviation of Real-Time Messaging Protocol and Real-Time Messaging Protocol Secure. *18: Abbreviation of Real-Time Streaming Protocol. *19: Abbreviation of Real-time Transport Protocol. *20: SFP: module purchased separately. Please refer to the recommended models. *21: See individual product pages for information on all supported controllers. *22: Unlike when other PTZ Cameras are connected, the display corresponds to the AW-UE4WG/KG menu structure. *23: Discontinued Products. *24: See individual product pages for information on all supported Remote Operation Panels. *25: Support is planned in future. See the Panasonic website for the latest information (https://pro-av.panasonic.net/en/products/ptz_camera_systems.html). *26: Support is currently under consideration. See the Panasonic website for the latest information (https://pro-av.panasonic.net/en/products/ptz_camera_systems.html). *27: Can be used when the wide-angle camera link function is used. *28: This EIS works for the roll direction. *29: High-speed mode speeds vary by model. *30: 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.

4K / HD Integrated Camera

4K 60p/50p^{*1} output, high-magnification zoom and wide-angle shooting for flexible video production



Optical Zoom 20x
4K Integrated Camera
AW-UE150W/K
V-Log Support^{*2}

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



Optical Zoom 20x
NEW
HD Integrated Camera
AW-HE145W/K
US and Europe only model

4K 60p/50p^{*1} NDI^{®3}&SRT^{*4} supported PTZ Camera with a compact body and a wide range of features



Optical Zoom 24x
4K Integrated Camera
AW-UE100W/K

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



Optical Zoom 24x
NEW
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

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



Optical Zoom 12x
HD Integrated Camera
AW-HE20W/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-UE4W/K
AW-UE4WG/KG

For outdoor use
Outdoor integrated pan-tilt full-HD camera with high sensitivity, high S/N ratio, and high resolution



Optical Zoom 20x
Full-HD Outdoor Integrated Camera
AW-HR140
High-Wind Resistance, Water & Dust Proof, Defroster, Heat Resistance, Lens Wiper, Resistance to Salt Damage, Haze Reduction, D.I.S.S.

IT/IP Platform

The live video production platform allows flexible system configuration and operation, delivering improved video quality and productivity

KAIROS
Incredible Productivity

IT/IP Platform
KAIROS^{*6}



Kairos Core 100



Kairos Control



Kairos Creator

https://pro-av.panasonic.net/en/products/it_ip_platform/?cid=qr_su_prd_mebd-lineup-kairos_220401



Remote Camera Controller / Switcher / Remote Operation Panel

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

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



Live Switcher
AV-UHS500

* For more information about controllers, please visit here (https://pro-av.panasonic.net/en/products/compatibility_chart/).

These compact operation panels also support PoE* and IP control



Remote Operation Panel (ROP)
NEW
AK-HRP1010GJ
AK-HRP1015GJ^{*5}
*Abbreviation of Power over Ethernet.

Compact operation panel also compatible with Studio Handy Cameras



NEW
Remote Operation Panel (ROP)
AK-HRP250GJ
*Abbreviation of Power over Ethernet.

Memory Card Portable Recorder

POVCAM with a Compact, Lightweight, Free-Shooting Design and IP Network Linking Capability

Memory Card Portable Recorder
AG-UMR20



Optional Products

AC Adaptor
AW-PS551



NEW
Infrared Wireless Remote Control
AW-RM50AG



Direct Ceiling Mount Bracket
WV-Q105A



* If you need information about Third Party Products, please visit each products' web site (<https://pro-av.panasonic.net/en/support/>).

Software

Clear, Sharp Video with Auto Tracking of Speaker

Auto Tracking Software Key
AW-SF100 AW-SF202 2 Additional Licenses
AW-SF200 AW-SF203 3 Additional Licenses

GUI screen that enables the subject of multiple PTZ Cameras to be switched with a single click of an icon
NEW Visual Preset Software Key AW-SF300



Main screen

Free Software

- PTZ Control Center Controls multiple PTZ cameras from PC
- PTZ Virtual USB Driver Software that converts PTZ camera on your network into Super Web cam
- EasyIP Setup Tool Plus Software for camera detection, network settings and firmware update

https://pro-av.panasonic.net/en/products/ptz_camera_systems.html?cid=qr_su_prd_mebd-lineup-ptztop_220401



*1: Actual output format is UHD (3840 x 2160) 59.94p/50p. *2: A version software update may be required on the device. *3: NDI[®] is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI[®] is a registered trademark of NewTek, Inc. in the United States and other countries. *4: Abbreviation of Secure Reliable Transport. *5: Not available in some areas. *6: The AW-UE150W/K, AW-UE100W/K, AW-UE80W/K, AW-UE50W/K and AW-UE40W/K are the only PTZ Cameras currently supported.