

PTZ Camera System Lineup



PTZ Camera System Specification Comparison

As of January, 2021

BASE MODEL		AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
NDI® HX (NDI® N-Series Model)		— ^{*1}	— (Standard Equipment)	AW-UN70W/K	— ^{*1}	AW-HN40HW/HK	AW-HN38HW/HK	—
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	1/2.3-type MOS	1/2.3-type MOS	1/2.3-type MOS		1/2.5-type MOS
Optical Zoom		20x	24x	20x	20x	30x	22x	—
i.Zoom		UHD 24x, FHD 32x	UHD 28x, FHD 36x	UHD 22x, FHD 30x	FHD 30x	FHD 40x	FHD 30x	—
Digital Zoom		10x	10x	12x	12x	16x		4x
F Value		F2.8 to F4.5	F1.8 to F4.0	F1.8 to F3.6	F1.8 to F3.6	F1.6 to F4.7	F1.6 to F4.3	F2.4
Focal Length		f=8.8 mm to 176.0 mm (35 mm equivalent: 24.5 mm to 490.0 mm)	f=4.12 mm to 98.9 mm (35 mm equivalent: 25.0 mm to 600.0 mm)	f=4.08 mm to 81.6 mm (35 mm equivalent: 29.5 mm to 612.0 mm)	f=4.08 mm to 81.6 mm (35 mm equivalent: 29.5 mm to 612.0 mm)	f=4.3 mm to 129 mm (35 mm equivalent: 31.6 mm to 962.0 mm)	f=4.3 mm to 94.6 mm (35 mm equivalent: 31.6 mm to 705.0 mm)	f=2.21 mm (35 mm equivalent: 13.4 mm)
FOV	Horizontal	75.1° (W) to 4.0° (T)	74.1° (W) to 3.3° (T)	65.1° (W) to 3.26° (T) ^{*2}	65.1° (W) to 3.26° (T) ^{*2}	61.6° (W) to 2.10° (T) ^{*3}	61.6° (W) to 2.9° (T) ^{*3}	111° (LDC OFF) ^{*4}
	Vertical	46.7° (W) to 2.3° (T)	46.0° (W) to 1.9° (T)	39.5° (W) to 1.83° (T) ^{*2}	39.5° (W) to 1.83° (T) ^{*2}	37.0° (W) to 1.18° (T) ^{*3}	37.0° (W) to 1.6° (T) ^{*3}	75° (LDC OFF) ^{*4}
	Diagonal	82.8° (W) to 4.6° (T)	81.8° (W) to 3.8° (T)	72.4° (W) to 3.74° (T) ^{*2}	72.4° (W) to 3.74° (T) ^{*2}	68.7° (W) to 2.42° (T) ^{*3}	68.7° (W) to 3.3° (T) ^{*3}	120° (LDC OFF) ^{*4}
Focus		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)	1500 TV lines Typ (Center area)	4K: 1300 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)	1000 TV lines Typ (Center area)	1000 TV lines Typ (Center area)		4K: 1400 TV lines Typ (Center area) ^{*5} HD: 900 TV lines Typ (Center area) ^{*5}
Minimum Illumination		2 lx	3 lx	0.35 lx	0.35 lx	0.35 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 48 dB (3 dB step)	Auto, 0 dB to 48 dB (3 dB step)	Auto, 0 dB to 48 dB (3 dB step)		Auto, 0 dB to 42 dB (3 dB step)
S/N		60 dB or more	60 dB (When [Shooting Mode] is [Normal])	54 dB (standard)	54 dB (standard)	54 dB (standard)		54 dB or more
Control		Serial/IP/IR	Serial/IP/IR	Serial/IP/IR	Serial/IP/IR	Serial/IP/IR		IP/IR
Power		PoE++ or XLR	PoE++ or AC	PoE+ or AC	PoE+ or AC	PoE+ or AC		PoE/USB
Current Consumption		4.0 A (XLR) 1.2 A (PoE++) ^{*6}	3.0 A (AC) 1.0 A (PoE++) ^{*6}	1.3 A (AC) 0.5 A (PoE+) ^{*7}	1.3 A (AC) 0.5 A (PoE+) ^{*7}	1.2 A (AC) 0.4 A (PoE+) ^{*7}		1.0 A (USB) 0.2 A (PoE) ^{*8}
Weight		9.24 lbs	5.06 lb	3.30 lbs	3.30 lbs	3.30 lbs		1.1 lbs
Dimensions (W x H x D) ^{*9}		213 mm x 267 mm x 219 mm	169.2 mm x 204.6 mm x 170.6 mm	160 mm x 186 mm x 179mm	160 mm x 186 mm x 179 mm	160 mm x 186 mm x 166 mm		123 mm x 131mm x 139 mm
Mount Position		Invertible: Ceiling or Desktop ^{*10}	Invertible: Ceiling or Desktop ^{*10}	Invertible: Ceiling or Desktop ^{*10}	Invertible: Ceiling or Desktop ^{*10}	Invertible: Ceiling or Desktop ^{*10}		Invertible: Ceiling or Desktop ^{*10}
PTZ								
Pan Range		±175°	±175°	±175°	±175°	±175°		±110° (manual)
Tilt Range		-30° to 210° ^{*11}	-30° to 210° ^{*11}	-30° to 90° ^{*11}	-30° to 90° ^{*11}	-30° to 90° ^{*11}		±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 ^{*12}	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: 90°/s	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s		—
Operation Noise		NC35 or Less	NC25 or Less	NC35 or Less	NC35 or Less	NC35 or Less		—
New Direct Drive System		—	✓	—	—	—		—
VIDEO OUTPUT								
12G-SDI		✓	✓	—	—	—		—
3G-SDI		✓ (Cropping is available.)	✓ (Cropping is available.)	✓	✓	—		—
HD-SDI		✓ ^{*13}	✓ ^{*13}	✓	✓ (Only for SW/SK)	—		—
HDMI		✓	✓	✓	✓ (Only for HW/HK)	✓		✓
Composite		—	—	—	—	—		—
USB		—	—	✓	✓	✓		✓
IP	SRT ^{*14}	✓	✓	—	—	—		—
	High Bandwidth NDI [®] *15	—	✓	—	—	—		—
	NDI [®] HX	✓ (BASE Model requires to be upgraded.)	✓	✓ (BASE Model requires to be upgraded.)	✓ (BASE Model requires to be upgraded.)	✓ (BASE Model requires to be upgraded.)		—
	RTMP/RTMPS ^{*16}	✓	✓	—	—	—		✓
	RTSP ^{*17} /RTP ^{*18} etc.	✓	✓	✓	✓	✓		✓
Optical Fiber		✓ ^{*19}	—	—	—	—		—
CONTROL								
Browser (PC/Mac/Mobile) via IP		✓	✓	✓	✓	✓		✓
USB		—	—	✓	✓	✓		✓
Auto Tracking/Auto Tracking Server		AW-SF100/AW-SF200	AW-SF100/AW-SF200	AW-SF100/AW-SF200	AW-SF100/AW-SF200	AW-SF100/AW-SF200		AW-SF100/AW-SF200
IOS app(PTZ Cntrl)+AW-HEA10W/K ^{*20}		✓	— ^{*21}	✓	✓	✓		—
Controller/Switcher Supported ^{*22}		AW-RP150GJ/ AW-RP60GJ/AV-HLC100	AW-RP150GJ/ AW-RP60GJ/AV-HLC100 ^{*23}	AW-RP150GJ/ AW-RP60GJ/AV-HLC100	AW-RP150GJ/ AW-RP60GJ/AV-HLC100	AW-RP150GJ/ AW-RP60GJ/AV-HLC100		AW-RP60GJ ^{*24}
IR Remote Control		AW-RM50G	AW-RM50G	AW-RM50G	AW-RM50G	AW-RM50G		AW-RM50G
Remote Operation Panel (ROP/RCP) ^{*25}		AK-HRP1000GJ	— ^{*26}	AK-HRP200G AK-HRP1000GJ	AK-HRP1000GJ	AK-HRP200G AK-HRP1000GJ		—
PTZ Control Center		✓	✓	✓	✓	✓		✓
PTZ Virtual USB Driver		✓	✓	✓	✓	✓		✓
FEATURES								
IP Streaming		✓	✓	✓	✓	✓		✓
Image Stabilization		Optical	Optical(O.I.S.), Electronic(E.I.S.) ^{*27}	Optical, Electronic	Optical, Electronic	Electronic		—
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
microSD Card Recording		—	—	✓	✓	✓		—
High Dynamic Range (HDR)		—	—	✓	—	—		—
Fanless Design		—	—	✓	✓	✓		✓
Built-in ND Filters		Through, 1/4, 1/16, 1/64	Through, 1/4, 1/16, 1/64	Auto ^{*28} , Through, 1/4, 1/16, 1/64	Auto ^{*28} , Through, 1/4, 1/16, 1/64	—		—
Genlock		✓	✓	✓	✓	—		—
Digital Noise Reduction (DNR)		✓	✓	✓	✓	✓		✓
High-Speed Pan/Tilt Mode		✓	✓	—	—	—		—
HD Cropping in 4K Mode		✓	✓ (Cropping zoom is available.)	—	—	—		—
AR/VR Systems		FreeD ^{*29}	FreeD ^{*29}	—	—	—		—

● NDI[®] is a new live video production workflow support protocol for IP use developed by NewTek in the United States.
^{*1}: Available to upgrade from BASE Model. Contact your local Panasonic vendor for further information and see NewTek website(<https://store.newtek.com/index.php/panasonicndihxlicense.html>) for more detail. ^{*2}: When OIS is OFF/Mode1. ^{*3}: Image Stabilizer OFF. ^{*4}: LDC is the abbreviation for Lens Distortion Correction. ^{*5}: HDMI output. ^{*6}: Abbreviation of Power over Ethernet Plus Plus. Conforms to IEEE802.3bt. ^{*7}: Abbreviation of Power over Ethernet. ^{*8}: Abbreviation of Power over Ethernet. ^{*9}: Excluding protrusions, cable cover, mount bracket. ^{*10}: To ensure safety, the unit must be secured using the mount bracket supplied. ^{*11}: Depending on the pan or tilt position, the camera may be reflected in the image. ^{*12}: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode. ^{*13}: Not leased line. Use 3G-SDI and choose from Video Format. ^{*14}: Abbreviation of Secure Reliable Transport. ^{*15}: High bandwidth NDI[®] transmits 4K video at a maximum of 250 Mbps and full HD video at a maximum of 125 Mbps. ^{*16}: Abbreviation of Real-Time Messaging Protocol and Real-Time Messaging Protocol Secure. ^{*17}: Abbreviation of Real-Time Streaming Protocol. ^{*18}: Abbreviation of Real-time Transport Protocol. ^{*19}: SFP+ module purchased separately. Please reference brochure for recommended models. ^{*20}: Discontinued Products. ^{*21}: AW-UE100W/K connection support is under consideration. See the Panasonic website (<https://pro-av.panasonic.net/en/download/index.html>) for the latest information. ^{*22}: For more information about controllers, please visit the Panasonic website (https://pro-av.panasonic.net/en/products/compatibility_chart/). ^{*23}: Other controllers are under consideration. See the Panasonic website (<https://pro-av.panasonic.net/en/products/aw-ue100/accessories.html#accessories>) for the latest information. ^{*24}: However, Slow Shutter, LDC, Priority Mode, Mirror, Language settings cannot be controlled. ^{*25}: For more information about ROP/RCP, please visit the Panasonic website (https://pro-av.panasonic.net/en/products/compatibility_chart/). ^{*26}: AW-UE100W/K connection support planned for the future. See the Panasonic website (<https://pro-av.panasonic.net/en/products/aw-ue100/accessories.html#accessories>) for the latest information. ^{*27}: This EIS works for the roll direction. ^{*28}: "Auto" is available when "Scene" setting is "Full Auto". ^{*29}: A widely-used protocol for transmitting camera tracking data in virtual studios.

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

4K 60p/50p*1 NDI®*4 & SRT*5 supported PTZ Camera with a compact body and a wide range of features



Optical Zoom
24x



NEW
4K Integrated Camera
AW-UE100W/K

Integrated pan-tilt 4K cameras able to output 4K video via 3G-SDI, HDMI, USB, and IP transmission



Optical Zoom
20x



4K Integrated Camera
AW-UE70W/K
NDI®|HX*3 built-in model
AW-UN70W/K

Integrated pan-tilt full-HD cameras supporting 3G-SDI, HDMI, USB and IP transfer



Optical Zoom
20x

HD Integrated Camera
AW-HE42W/K

Integrated pan-tilt full-HD cameras with excellent operability and installation flexibility



Optical Zoom
30x

HD Integrated Camera
SDI model
AW-HE40SW/SK
HDMI model
AW-HE40HW/HK
NDI®|HX*3 built-in model
AW-HN40HW/HK



Optical Zoom
22x

HD Integrated Camera
AW-HE38HW/HK
NDI®|HX*3 built-in model
AW-HN38HW/HK



4K Integrated Camera
AW-UE40W/KG

Full-HD camera with integrated pan-tilt for lectures, meetings and a wide variety of applications

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

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



Optical Zoom
20x

- High-Wind Resistance
- Water & Dust Proof
- Defroster
- Heat Resistance
- Lens Wiper
- Resistance to Salt Damage
- Haze Reduction
- D.I.S.S

Full-HD Outdoor Integrated Camera
AW-HR140

IT/IP Platform

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



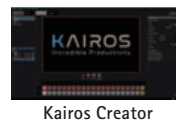
NEW IT/IP Platform
KAIROS



Kairos Core 100



Kairos Control



Kairos Creator

https://pro-av.panasonic.net/en/products/it_ip_platform/



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-RP150GJ

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



Remote Camera Controller
AW-RP60GJ

An all-in-one switcher that combines the functions of a live switcher, remote camera controller, and audio mixer



Live Production Center
AV-HLC100

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



NEW
Live Switcher
AV-UHS500

These compact operation panels also support PoE and IP control



Remote Operation Panel (ROP)
AK-HRP1000GJ
NEW
AK-HRP1015GJ*6,7

Compact operation panel also compatible with Studio Handy Cameras



Remote Operation Panel (ROP)
AK-HRP200G
NEW
AK-HRP250GJ*6

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

Optional Products

AC Adaptor
AW-PS551



Wireless remote control
AW-RM50G



Direct Ceiling Mount Bracket
VV-Q105A



• If you need information about PoE HUB, 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-SF200

AW-SF202 2 Additional Licenses
AW-SF203 3 Additional Licenses



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

For more information, please visit Panasonic PTZ Camera Systems web site (https://pro-av.panasonic.net/en/ptz_camera_system.html)

Memory Card Portable Recorder

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



Memory Card Portable Recorder
AG-UMR20



*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®|HX, a technology of NewTek, Inc. *4: NDI® is a new live video production workflow support protocol for IP use developed by NewTek in the United States. In this instance, NDI® is used to indicate High bandwidth NDI®. *5: Abbreviation of Secure Reliable Transport. *6: Scheduled for release in the fourth quarter of CY2020. *7: Not available in some areas.