Panasonic
BUSINESS

PTZ Camera System
Lineup

PTZ Camera System Specification Comparison

As of November,2020

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
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

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
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	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
FOV — 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
FOV — 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, 0 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

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
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

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
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	—	✓	—	—	—	—	—
IP — High Bandwidth NDI®*15	—	✓	—	—	—	—	—
IP — 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.)		—
IP — RTMP/RTMPS*16	✓	✓	—	—	—	—	✓
IP — RTSP*17/RTP*18etc.	✓	✓	✓	✓	✓		✓
Optical Fiber	✓*19	—	—	—	—	—	—

CONTROL

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
Browser (PC/Mac/Mobile) via IP	✓	✓	✓	✓	✓		✓
USB	—	—	✓	✓	✓		✓
VISCA	✓	✓	✓	✓	✓		—
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

	AW-UE150W/K	AW-UE100W/K	AW-UE70W/K	AW-HE42W/K	AW-HE40SW/SK AW-HE40HW/HK	AW-HE38HW/HK	AW-UE4WG/KG
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	—	—	—	—	—

4K / HD Integrated Camera

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

Optical Zoom 20x **4K PROFESSIONAL HDR**

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 **4K PROFESSIONAL**

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 PROFESSIONAL**

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

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

Optical Zoom 22x

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

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

4K PROFESSIONAL

4K Integrated Camera
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

| 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

KAIROS Incredible 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
WV-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

Memory Card Portable Recorder

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

Memory Card Portable Recorder
AG-UMR20

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)

*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.