

Panasonic

BUSINESS

















10th
ANNIVERSARY

Remote Camera System Lineup



4K/HD Integrated Camera Specification Comparison

As of November, 2019

| |  |  |  |  |  |  |  |  |
|---|--|--|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |
| BASE MODEL | AW-UE150W/K | AW-HE130W/K | AW-UE70W/K | AW-HE42W/K | AW-HE40SW/SK AW-HE40HW/HK | AW-HE38HW/HK | AW-UE4WG/KG | AW-HR140 |
| NDI HX (NDI N-Series Model) | — | AW-HN130W/K | AW-UN70W/K | — | 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) | Silver |
| GENERAL | | | | | | | | |
| Sensor | 1-type 4K MOS | 1/2.86 type Full-HD 3MOS | 1/2.3-type MOS | 1/2.3-type MOS | 1/2.3-type MOS | | 1/2.5-type MOS | 1/2.86 type Full-HD 3MOS |
| Optical Zoom | 20x | 20x | 20x | 20x | 30x | 22x | — | 20x |
| i.Zoom | UHD 24x, FHD 32x | — | UHD 22x, FHD 30x | FHD 30x | FHD 40x | FHD 30x | — | — |
| Digital Zoom | 10x | 10x | 12x | 12x | 16x | | 4x | 10x |
| F value | F2.8 to F4.5 | F1.6 to F3.4 | F1.8 to F3.6 | F1.8 to F3.6 | F1.6 to F4.7 | F1.6 to F4.3 | F2.4 | F1.6 to F3.4 |
| Focal length | f=8.8 mm to 176.0 mm (35 mm equivalent: 24.5 mm to 490.0 mm) | f=4.5 mm to 90 mm (35 mm equivalent: 32.13 mm to 642.5 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) | f=4.5 mm to 90 mm (35 mm equivalent: 32.13 mm to 642.5 mm) |
| FOV (Horizontal) | 75.1° (W) to 4.0° (T) | 60.2° (W) to 3.3° (T) | 65.1° (W) to 3.26° (T) ^{*8} | 65.1° (W) to 3.26° (T) ^{*8} | 61.6° (W) to 2.10° (T) ^{*9} | 61.6° (W) to 2.9° (T) ^{*9} | 111° (LDC OFF) ^{*10} | 60.2° (W) to 3.3° (T) |
| FOV (Vertical) | 46.7° (W) to 2.3° (T) | 36.2° (W) to 1.9° (T) | 39.5° (W) to 1.83° (T) ^{*8} | 39.5° (W) to 1.83° (T) ^{*8} | 37.0° (W) to 1.18° (T) ^{*9} | 37.0° (W) to 1.6° (T) ^{*9} | 75° (LDC OFF) ^{*10} | 36.2° (W) to 1.9° (T) |
| FOV (Diagonal) | 82.8° (W) to 4.6° (T) | 67.4° (W) to 3.8° (T) | 72.4° (W) to 3.74° (T) ^{*8} | 72.4° (W) to 3.74° (T) ^{*8} | 68.7° (W) to 2.42° (T) ^{*9} | 68.7° (W) to 3.3° (T) ^{*9} | 120° (LDC OFF) ^{*10} | 67.4° (W) to 3.8° (T) |
| Focus | Auto/Manual | Auto/Manual | Auto/Manual | Auto/Manual | Auto/Manual | | Single focus | Auto/Manual |
| Horizontal Resolution | 4K: 1600 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area) | 1000 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) ^{*11} HD: 900 TV lines Typ (Center area) ^{*11} | 1000 TV lines Typ (Center area) |
| Minimum Illumination | 2 lx | 2 lx | 0.35 lx | 0.35 lx | 0.35 lx | | 4 lx | 2 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 | 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) | Auto, 0 dB to 42 dB (1 dB Step), (Super Gain function equipped: 37 dB to 42 dB) |
| S/N | 60 dB or more | 60 dB (standard) | 54 dB (standard) | 54 dB (standard) | 54 dB (standard) | | 54 dB or more | 60 dB |
| Control | Serial/IP/IR | Serial/IP/IR | Serial/IP/IR | Serial/IP/IR | Serial/IP/IR | | IP/IR | Serial/IP |
| Power | PoE++ or XLR | PoE+ or AC | PoE+ or AC | PoE+ or AC | PoE+ or AC | | PoE/USB | PoE++ or XLR |
| Power Consumption | 4.0 A (XLR) 1.2 A (PoE++) ^{*1} | 1.8 A (AC) 0.6 A (PoE+) ^{*6} | 1.3 A (AC) 0.5 A (PoE+) ^{*6} | 1.3 A (AC) 0.5 A (PoE+) ^{*6} | 1.2 A (AC) 0.4 A (PoE+) ^{*6} | | 1.0 A (USB) 0.2 A (PoE) ^{*12} | 5.5 A (XLR) 2.1 A (PoE++) ^{*1} |
| Weight | 9.24 lbs | 6.83 lbs | 3.30 lbs | 3.30 lbs | 3.30 lbs | | 1.1 lbs | 19.8 lbs |
| Mount Position | Invertible: Ceiling or Desktop ^{*2} | Invertible: Ceiling or Desktop ^{*2} | Invertible: Ceiling or Desktop ^{*2} | Invertible: Ceiling or Desktop ^{*2} | Invertible: Ceiling or Desktop ^{*2} | | Invertible: Ceiling or Desktop ^{*2} | Invertible: Ceiling or Desktop ^{*2} |
| PTZ | | | | | | | | |
| Pan Range | ±175° | ±175° | ±175° | ±175° | ±175° | | ±110° (manual) | ±175° |
| Tilt Range | -30° to 210° ^{*3} | -30° to 210° ^{*3} | -30° to 90° ^{*3} | -30° to 90° ^{*3} | -30° to 90° ^{*3} | | ±25° (manual) | -30° to 210° ^{*3} |
| Pan/Tilt Speed | Minimum speed 0.08°/s, maximum speed 60°/s or higher Maximum speed is 180°/s in high-speed mode ^{*4} | 0.08°/s to 60°/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 | | — | Maximum speed: 60°/s or more |
| Operation Noise | NC35 or Less | NC35 or Less | NC35 or Less | NC35 or Less | NC35 or Less | | — | NC45 or Less |
| VIDEO OUTPUT | | | | | | | | |
| 12G-SDI | ✓ | — | — | — | — | | — | — |
| 3G-SDI | ✓ | ✓ | ✓ | ✓ | — | | — | ✓ |
| HD-SDI | ✓ | ✓ | ✓ | ✓ | ✓ (Only for SW/SK) | — | — | ✓ |
| HDMI | ✓ | ✓ | ✓ | ✓ | ✓ (Only for HW/HK) | ✓ | ✓ | — |
| Composite | — | ✓ | — | — | — | | — | — |
| USB | — | — | — | ✓ | ✓ | | ✓ | — |
| IP | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| NDI HX | ✓ (BASE Model requires to be upgraded.) ^{*16} | ✓ (BASE Model requires to be upgraded.) ^{*16} | ✓ (BASE Model requires to be upgraded.) ^{*16} | ✓ (BASE Model requires to be upgraded.) ^{*16} | ✓ (BASE Model requires to be upgraded.) ^{*16} | | — | — |
| Optical Fiber | ✓ ^{*5} | — | — | — | — | | — | — |
| CONTROL | | | | | | | | |
| 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 | | — | — |
| IOS app (PTZ Ctrl)+AW-HEA10W/K ^{*17} | ✓ | ✓ | ✓ | ✓ | ✓ | | — | ✓ |
| Controller/Switcher Supported | AW-RP150G/AW-RP120G ^{*17} / AW-RP60G ^{*13} /AW-RP50/AV-HLC100 | AW-RP150G/AW-RP120G ^{*17} / AW-RP60G ^{*13} /AW-RP50/AV-HLC100 | AW-RP150G/AW-RP120G ^{*17} / AW-RP60G/AW-RP50/AV-HLC100 | AW-RP150G/AW-RP60G/ AW-RP50/AV-HLC100 | AW-RP150G/AW-RP120G ^{*17} / AW-RP60G/AW-RP50/AV-HLC100 | | AW-RP60G ^{*13} | AW-RP150G/AW-RP120G ^{*17} / AW-RP60G ^{*13} /AW-RP50/AV-HLC100 |
| IR Remote Control | AW-RM50G | AW-RM50G | AW-RM50G | AW-RM50G | AW-RM50G | | AW-RM50G | — |
| Remote Operation Panel (ROP/RCP) | AK-HRP1000GJ AK-HRP1005GJ | AK-HRP200G AK-HRP1000GJ AK-HRP1005GJ | AK-HRP200G AK-HRP1000GJ AK-HRP1005GJ | AK-HRP1000GJ AK-HRP1005GJ | AK-HRP200G AK-HRP1000GJ AK-HRP1005GJ | | — | AK-HRP200G AK-HRP1000GJ AK-HRP1005GJ |
| PTZ Control Center | ✓ | ✓ | ✓ | ✓ | ✓ | | — ^{*14} | ✓ |
| PTZ Virtual USB Driver | ✓ | ✓ | ✓ | ✓ | ✓ | | — ^{*14} | ✓ |
| FEATURES | | | | | | | | |
| IP streaming | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Image Stabilization | Optical | Optical | Optical, Electronic | Optical, Electronic | Electronic | | — | Optical, D.I.S.S. ^{*15} |
| 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 |
| microSD Card Recording | — | — | ✓ | ✓ | ✓ | | — | — |
| High Dynamic Range (HDR) | ✓ | — | — | — | — | | — | — |
| Fanless Design | — | ✓ | ✓ | ✓ | ✓ | | ✓ | — |
| Built-in ND Filters | Through, 1/4, 1/16, 1/64 | Through, 1/8, 1/64 | Auto ^{*7} , Through, 1/4, 1/16, 1/64 | Auto ^{*7} , Through, 1/4, 1/16, 1/64 | — | | — | Through, 1/8, 1/64 |
| Genlock | ✓ | ✓ | ✓ | ✓ | — | | — | ✓ |
| Digital Noise Reduction (DNR) | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| High-Speed Pan/Tilt Mode | ✓ | — | — | — | — | | — | — |
| HD Cropping in 4K Mode | ✓ | — | — | — | — | | — | — |
| High-Wind Resistance | — | — | — | — | — | | — | ✓ |
| Lens Wiper | — | — | — | — | — | | — | ✓ |
| Built-In Heater/Defroster | — | — | — | — | — | | — | ✓ |
| Haze Reduction | — | — | — | — | — | | — | ✓ |
| Water & Dust Proof | — | — | — | — | — | | — | ✓ |

● NDI: This product is compatible with NDI|HX technology of NewTek, Inc.
 *1: Abbreviation of Power over Ethernet Plus Plus. Conforms to IEEE802.3bt. *2: To ensure safety, the unit must be secured using the mount bracket supplied. *3: Depending on the pan or tilt position, the camera may be reflected in the image. *4: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode.
 *5: SFP+ module purchased separately. Please reference brochure for recommended models. *6: Abbreviation of Power over Ethernet Plus. *7: "Auto" is available when "Scene" setting is "Full Auto". *8: When OIS is OFF/Mode 1. *9: Image Stabilizer OFF. *10: LDC is the abbreviation for Lens Distortion Correction.
 *11: HDMI output. *12: Abbreviation of Power over Ethernet. *13: Connection support planned for the future. See the Panasonic website (<https://pro-av.panasonic.net/en/products/aw-rp60g/>) for more details. Use may require a software version update. *14: AW-UE4WG/KG connection support planned for the future. Contact your local Panasonic vendor for further information. Use may require a software version update. *15: Abbreviation of Dynamic Image Stabilizing System. *16: See NewTek website (<https://store.newtek.com/index.php/panasonicndilicense.html>) for more details. *17: Discontinued Products.

4K / HD Integrated Camera

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



4K Integrated Camera
AW-UE150W/K
V-Log Support*2

Integrated pan-tilt full-HD cameras supporting IP transmission output of full-HD images



HD Integrated Camera
AW-HE130W/K
NDI|HX*3 built-in model
AW-HN130W/K

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



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



NEW
HD Integrated Camera
AW-HE42W/K

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



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



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



NEW
4K Integrated Camera
AW-UE4W/KG

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



Full-HD Outdoor Integrated Camera
AW-HR140

*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.

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

Compact, easy-to-operate remote controller



Remote Camera Controller
AW-RP50
(Limited release)

These compact operation panels also support PoE*1 and IP control.



Remote Operation Panel (ROP)
AK-HRP1000GJ
AK-HRP1005GJ

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



NEW
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

Compact operation panel also compatible with Studio Handy Cameras



Remote Operation Panel (ROP)
AK-HRP200G

Optional Products

AC Adaptor
AW-PS551



Wireless remote control
AW-RM50G



Direct Ceiling Mount Bracket
WV-Q105A



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
- **Easy IP Setup Software**

Memory Card Portable Recorder

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



Memory Card Portable Recorder
AG-UMR20



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