

Panasonic

PTZ Camera System Lineup



PTZ Camera System Specification Comparison

As of July, 2025

Model	High-end			Standard			Entry			Outdoor
	AW-U160W/K	AW-U150AV/W/AK	AW-H145W/K	AW-UE100W/K	AW-UE80W/K	AW-UE60W/K	AW-UE20W/K	AW-UE40W/G/KG	AW-UE100	
Camera Body Color	Black (K) or Pearl White (W)	Black (K) or White (W)	Black (K) or White (W)	Black (K) or White (W)	Silver					
General										
Sensor	1-type (1/1.7") 4K MOS Approx. 9.62 megapixels	1-type (1/1.7") 4K MOS Approx. 20.18 megapixels	1-type (1/1.7") 4K MOS Approx. 8.49 megapixels	1/2.5-type (1/2.5") 4K MOS 20x	1/2.5-type (1/2.5") 4K MOS 24x	1/2.5-type (1/2.5") 4K MOS 24x (AV-U150AV/W/AK)	1/2.5-type (1/2.5") 4K MOS 24x (AV-U150AV/W/AK)	1/2.5-type (1/2.5") 4K MOS 12x	1/2.5-type (1/2.5") 4K MOS Approx. 8.49 megapixels	1/2.5-type (1/2.5") 4K MOS Approx. 8.49 megapixels
Effective Pixels	Approx. 9.62 megapixels	Approx. 20.18 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels	Approx. 8.49 megapixels
Optical Zoom	20x	20x	10x	24x						
Digital Zoom	10x	36x								
FOV	Horizontal Vertical Diagonal									
Focus	Auto / Manual									
Horizontal Resolution	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)	4K: 1,600TV lines (Top Center area) HD: 1,000TV lines (Top Center area)
Standard Sensitivity	F14, 2,000 lx (High Sensitive) F11, 2,000 lx (Normal)	F12, 2,000 lx (High Sensitive) F9, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)	F5.6, 2,000 lx (High Sensitive) F4, 2,000 lx (Normal)
Gain	Auto -6 dB to 12 dB (1 dB step) Serial (IP) / IR	Auto -6 dB to 12 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR	Auto -3 dB to 36 dB (1 dB step) Serial (IP) / IR
Control	Power Poe++*/IR Poe++*/XLR	Power Poe++*/IR Poe++*/XLR	Poe++*/IR Poe++*/XLR							
Current Consumption	5.0 A (NVR) 1.5 A (PoE++)	4.0 A (NVR) 1.2 A (PoE++)								
Weight*	1.5 kg (0.34 lbs) 1.5 kg (0.34 lbs)									
Dimensions (W x H x D)	213.0 mm x 277.0 mm x 240.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm	213.0 mm x 267.0 mm x 219.0 mm
Mount Position	Invertible, Ceiling or Desktop*9									
PTZ										
Pan Range	+175°	+175°	+175°	+175°	+175°	+175°	+175°	+175°	+175°	+175°
Pan / Tilt Speed	-30° to 10° 30° to 10°									
Operation Noise	N<35 or less (Normal use) N<25 or less (PoE Standard)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)	N<35 or less (Normal use) N<25 or less (Normal use)
New Direct System	-	-	-	-	-	-	-	-	-	-
PTZ Mechanism	(Built-in optical encoder)									
Video Output	12G-SDI	3G-SDI								
USB	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A	USB 3.0 Type-C USB 3.0 Type-A USB 3.0 Type-B USB 3.0 Type-C USB 3.0 Type-A
IP	NDI® High Bandwidth NDI® HX2 NDI® embedded bridge	NDI® High Bandwidth NDI® HX2								
Controller	AW-RP150 / AW-RP160 AV-H150S / AV-H150W									
Compact Switcher Supported*	RTMP/RTMPPS	RTSP/RTP								
IR Remote Control*	-	-	-	-	-	-	-	-	-	-
Remote Operation Panel (ROP)*18	SMpte ST 2110 Activation Software Key AW-SM60	AK-HRP1010CG / AK-HRP1015CG AK-HRP250CG / AK-HRP255CG								
Control	Browser (PC/Mac/Nobility) via IP USB Compact Switcher Supported*	Browsing AW-RP150 / AW-RP160 AV-H150S / AV-H150W								
Software*										
Basic Functions										
Auto Tracking	(Additional Fee)									
Advanced Auto Framing	(Additional Fee)									
Media Production Suite	(Additional Fee)									
Visual Preset	(Additional Fee)									
Video Mixer	(Additional Fee)									
SMpte ST 2110 Activation Software Key	Up to 100									
AW-SM60	(Support BT.2020) Up to 100									
PTZ Virtual USB Driver										
Features										
IP Streaming	Optical (0.15x), Electronic (E1.5x)*1	Optical (0.15x)								
Image Stabilization	Optical (0.15x), Electronic (E1.5x)*1	Optical (0.15x)								
Night Mode (for IR)	Through 1/4, 1/16, 1/64									
Dynamic Range (DR)	-	-	-	-	-	-	-	-	-	-
Audio Input / Embedding	(XLR 3x 2)									
Internal Mic	-	-	-	-	-	-	-	-	-	-
Color Temperature Adjustment	Up to 100									
Presets	(Support BT.2020)									
High Dynamic Range (HDR)	(Support BT.2020)									
V-log	-	-	-	-	-	-	-	-	-	-
Fall-off Design	-	-	-	-	-	-	-	-	-	-
Horizontal Low-pass Filter	-	-	-	-	-	-	-	-	-	-
Genlock	-	-	-	-	-	-	-	-	-	-
Digital Noise Reduction (DNR)	Enabled with New Image Processing Engine									
High-Speed Pan / Tilt Mode*22	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HD Cropping	(Cropping zoom is available.)									
AR / VR Systems	FreeD*23									
Privacy Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tally Lamp	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)	Front & Rear (Red, Green, Yellow, Red, Green, Yellow)
USB: Video Conference mode*24	-	-	-	-	-	-	-	-	-	-
Waveform Display	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal Level Gauge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Built-in Auto Tracking	-	-	-	-	-	-	-	-	-	-
Auto Framing feature*25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSP										

*1 PTZ Camera is licensed under Creative Commons Attribution-Nondistribution-4.0 International Public License with disclaimer of liability. The license can be found at <https://creativecommons.org/licenses/by-nd/4.0/>. See the Public Note for information on Optimal Products. Software *2 https://www.ptzcam.com/ptz-camera/ptz-camera-accessories/zoom-magnification.html#zoom_magnification. *3 MicroSD and MicroSDHC are trademarks or registered trademarks of SanDisk Corporation. *4 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *5 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *6 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *7 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *8 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *9 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *10 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *11 Quietness, stability, accuracy, etc., may differ depending on the environment. *12 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *13 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *14 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *15 The term "MSP" is used here to refer to the abbreviation of "Multi-System Processor". *16 The term

4K / HD Integrated Camera

High-end

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



4K Integrated Camera
AW-UE160W/K

New Standard for Professional Video
Expressiveness and Operational Versatility



NEW
4K Integrated Camera
AW-UE150AW/AK

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^{*3} NDI® High Bandwidth & SRT supported PTZ Camera with a compact body and a wide range of features



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



4K Integrated Camera
AW-UE80W/K

Standard models suitable for use in online classes and briefing sessions



4K Integrated Camera
AW-UE50W/K
AW-UE40W/K



4K Integrated Camera
AW-UE30W/K

Entry

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



4K Integrated Camera
AW-UE20W/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-UE4WG/KG

Certified for Microsoft Teams

For outdoor use

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



4K Outdoor Integrated Camera
AW-UR100

IT/IP Platform KAIROS^{*5}



IT/IP Platform KAIROS web site (https://pro-av.panasonic.net/en/products/it_ip_platform/)

- 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



Workflow Tools / Software

Multi Purpose Camera

Box-style 4K camera with high-sensitivity, large-format sensor supporting PTZ common control protocols



NEW 4K Multi Purpose Camera
AW-UB50



NEW 4K Multi Purpose Camera
AW-UB10

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

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



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

*Abbreviation of Power over Ethernet.

Remote Operation Panel (ROP)
AK-HRP1010GJ
AK-HRP1015GJ*

Compact operation panel also compatible with Studio Handy Cameras



- 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

Software Platform for Smart Operation and Rich Expression

Basic Functions

Device View Free

Manages network settings and firmware updates

PTZ Control Free

Controls multiple PTZ cameras from PC



Media Production Suite web site
(<https://pro-av.panasonic.net/en/software/mps/>)

Auto Tracking

Automatically tracks speaker and captures clear images

Auto Tracking Software Key (license for one camera) **AW-SF100**

Auto Tracking Software Key (license for multiple cameras) **AW-SF200 / AW-SF202 / AW-SF203**

(2 additional licenses) (3 additional licenses)

Video Mixer

Diverse video compositions created easily with PC

Video Mixer Software Key **AW-SF400**

NEW Advanced Auto Framing

Automatic high-quality, smartly framed video

Advanced Auto Framing Software Key

• **AW-SF501** (perpetual license for one framing camera)

• **AW-SF503** (perpetual license for three framing cameras)

• **AW-SF501W** (7-day limited license for one framing camera)

• **AW-SF503W** (7-day limited license for three framing cameras)

• **AW-SF501M** (30-day limited license for one framing camera)

• **AW-SF503M** (30-day limited license for three framing cameras)

* This product is available in limited regions. Please check with your local sales company for availability.

Visual Preset

Switches subject of multiple PTZ cameras with a single click

Visual Preset Software Key **AW-SF300**

PTZ Virtual USB Driver Free

Converts PTZ camera on your network into Super Web cam

SMPTE ST 2110 Activation Software Key^{*7} **AW-SFU60**



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