Panasonic

2019 PRO PTZ CAMERA LINEUP

	4K POV Ultra-Wide — COMPACT — AW-UE4 [NEW]	ENTRY-LEVEL — STANDARD — AW-HE38H	HD w/HDMI — STANDARD — AW-HE40H	HD w/SDI — STANDARD — AW-HE40S	HD PROFESSIONAL — STANDARD — AW-HE42 [NEW]	4K PROFESSIONAL — STANDARD — AW-UE70	PRO FULL-HD — STANDARD — AW-HE130	4K PERFORMANCE — PERFORMANCE — AW-UE150 [NEW]	ALL WEATHER — OUTDOOR — AW-HR140
NDI (NDI N-Series Model)	–	AW-HN38H	AW-HN40H	Upgrade Available	Upgrade Available	AW-UN70	AW-HN130	Upgrade Available	–
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)	Black (K) or White (W)	Silver
GENERAL									
Sensor	1/2.5" MOS	1/2.3" MOS	1/2.3" MOS	1/2.3" MOS	1/2.3" MOS	1/2.3" MOS	1/2.86" 3MOS	1" MOS	1/2.86" 3MOS
Optical Zoom	-	22x	30x	30x	20x	20x	20x	20x	20x
i.Zoom	-	30x	40x	40x	30x	30x	–	32x	–
Digital Zoom	4x	16x	16x	16x	12x	12x	10x	10x	10x
Lens Focal Length — Actual	-	f=4.3mm to 94.6mm	f=4.3mm to 129mm	f=4.3mm to 129mm	f=4.08mm to 81.6mm	f=4.08mm to 81.6mm	f=4.5mm to 90mm	f=8.8mm to 176mm	f=4.58mm to 90mm
Lens Focal Length — 35mm Equivalent	-	f=31.6mm to 705mm	f=31.6mm to 962mm	f=31.6mm to 962mm	f=29.5mm to 612mm	f=29.5mm to 612mm	f=32.13mm to 642.5mm	f=24.5mm to 490mm	f=32.13mm to 642.5mm
FOV (Horizontal)	111°	61.6° (W) - 2.9° (T)	61.6° (W) - 2.10° (T)	61.6° (W) - 2.10° (T)	65.1° (W) - 3.26° (T)	65.1° (W) - 3.26° (T)	60.2° (W) - 3.3° (T)	75.1° (W) - 4.0° (T)	60.2° (W) - 3.3° (T)
FOV (Vertical)	75°	37.0° (W) - 1.6° (T)	37.0° (W) - 1.18° (T)	37.0° (W) - 1.18° (T)	39.5° (W) - 1.83° (T)	39.5° (W) - 1.83° (T)	36.2° (W) - 1.9° (T)	46.7° (W) - 2.3° (T)	36.2° (W) - 1.9° (T)
FOV (Diagonal)	120°	68.7° (W) - 3.3° (T)	68.7° (W) - 2.42° (T)	68.7° (W) - 2.42° (T)	72.4° (W) - 3.74° (T)	72.4° (W) - 3.74° (T)	67.4° (W) - 3.8° (T)	82.8° (W) - 4.6° (T)	67.4° (W) - 3.8° (T)
Focus	Auto	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual
Horizontal Resolution	4K : 1400 TV lines / HD : 900 TV lines	1000 Lines	1000 Lines	1000 Lines	1000 Lines	1300 Lines (UHD)	1000 Lines	1600 Lines	1000 Lines
Minimum Illumination	4 lx	0.35 lx	0.35 lx	0.35 lx	0.35 lx	0.35 lx	2 lx	2 lx	2 lx
Gain	Auto, 0 dB to 42dB (3 dB steps)	0 dB - 48dB	0 dB - 48 dB	0 dB - 48 dB	0 dB - 48 dB	0 dB - 48 dB	0 dB - 36 dB	0 dB - 36 dB	0 dB - 42 dB
Control	IP/IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP / IR	Serial / IP
Power	PoE or USB	PoE+ or AC	PoE+ or AC	PoE+ or AC	PoE+ or AC	PoE+ or AC	PoE+ or AC	PoE++ or XLR	PoE++ or XLR
Power Consumption	DC42V - 57V (PoE) : 0.2 A / DC 5V (USB) : 1 A	1.2 A (AC) / 0.4 A (PoE+)	1.2 A (AC) / 0.4 A (PoE+)	1.2 A (AC) / 0.4 A (PoE+)	1.3 A (AC) / 0.5 A (PoE+)	1.3 A (AC) / 0.5 A (PoE+)	1.8 A (AC) / 0.6 A (PoE+)	4.0 A (XLR) / 1.2 A (PoE++)	5.5 A (XLR) / 2.1 A (PoE++)
Weight	0.5 kg (1.10lbs)	1.5Kg (3.30lbs)	1.5Kg (3.30lbs)	1.5Kg (3.30lbs)	1.5Kg (3.30lbs)	1.5Kg (3.30lbs)	3.1Kg (6.83lbs)	4.2Kg (9.24lbs)	9.0Kg (19.8lbs)
Installation	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Tripod, Wall, Ceiling	Wall, Ceiling
Mount Position	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop	Invertible: Ceiling or Desktop
PTZ									
Pan Range	±110 degrees (Manual Adjust)	±175 degrees	±175 degrees	±175 degrees	±175 degrees	±175 degrees	±175 degrees	±175 degrees	±175 degrees
Tilt Range	±25° (Manual Adjust)	-30 to 90°	-30 to 90°	-30 to 90°	-30 to 90°	-30 to 90°	-30 to 210°	-30 to 210°	-30 to 210°
Pan / Tilt Speed	-	300°/s (Preset) | 90°/s (M)	300°/s (Preset) | 90°/s (M)	300°/s (Preset) | 90°/s (M)	300°/s (Preset) | 90°/s (M)	300°/s (Preset) | 90°/s (M)	0.08°/s to 60°/s	~180°/s	60°/s
Operation Noise	-	NC35 or Less	NC35 or Less	NC35 or Less	NC35 or Less	NC35 or Less	NC35 or Less	NC35 or Less	NC45 or Less
VIDEO OUTPUT									
LAN	✓	✓	✓	✓	✓	✓	✓	✓	✓
NDI|HX	–	AW-HN38H	AW-HN40H	✓ (with upgrade)	✓ (with upgrade)	AW-UN70	AW-HN130	✓ (with upgrade)	–
Optical Fiber	–	–	–	–	–	–	–	✓*	–
12G-SDI	–	–	–	–	–	–	–	–	–
3G-SDI	–	–	–	–	✓	✓	✓	✓	✓
HD-SDI	–	–	–	✓	✓	✓	✓	✓	✓
HDMI	✓	✓	✓	–	✓	✓	✓	✓	–
Composite	–	–	–	–	–	–	✓	–	–
USB	✓	✓	✓	✓	✓	✓	–	–	–
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	AW-SF100 / AW-SF200	AW-SF100 / AW-SF200	–
Live Stream Studio (AV-HLC100)	–	✓	✓	✓	✓	✓	✓	✓	✓
iPad	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App	LiveCTRL App
IR Remote Control	AW-RM50	AW-RM50	AW-RM50	AW-RM50	AW-RM50	AW-RM50	AW-RM50	AW-RM50	–
Compact Controller	–	AW-RP50	AW-RP50	AW-RP50	AW-RP50	AW-RP50	AW-RP50	AW-RP50	AW-RP50
Compact Controller	AW-RP60 (Future Firmware update required)	AW-RP60	AW-RP60	AW-RP60	AW-RP60	AW-RP60	AW-RP60 (Future Firmware update required)	AW-RP60 (Future Firmware update required)	AW-RP60 (Future Firmware update required)
Full-Size Controller	–	AW-RP150	AW-RP150	AW-RP150	AW-RP150	AW-RP150	AW-RP150	AW-RP150	AW-RP150
Remote Operation Panel (ROP/RCP)	–	AK-HRP200 / AK-HRP1000 / AK-HRP1005	AK-HRP200 / AK-HRP1000 / AK-HRP1005	AK-HRP200 / AK-HRP1000 / AK-HRP1005	AK-HRP1000 / AK-HRP1005	AK-HRP200 / AK-HRP1000 / AK-HRP1005	AK-HRP200 / AK-HRP1000 / AK-HRP1005	AK-MSU1000 / AK-HRP1000 / AK-HRP1005	AK-HRP200 / AK-HRP1000 / AK-HRP1005
Software Controller (Windows)	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center
FEATURES									
IP Live Preview / Output	✓	✓	✓	✓	✓	✓	✓	✓	✓
Image Stabilization	–	Electronic	Electronic	Electronic	Optical	Optical	Optical	Optical	Optical / D.I.S.S.
Night Mode (for IR)	–	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic Range Stretch (DRS)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Audio Input / Embedding	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	Up to 200	Up to 100
microSD Card Recording	–	✓	✓	✓	✓	✓	–	–	–
High Dynamic Range (HDR)	–	–	–	–	–	–	–	✓	–
Fanless Design	✓	✓	✓	✓	✓	✓	✓	–	–
Built-in ND Filters	–	–	–	–	Auto, 1/4, 1/16, 1/64	Auto, 1/4, 1/16, 1/64	1/8, 1/64, Through	1/4, 1/16, 1/64	1/8, 1/64, Through
Genlock	–	–	–	–	✓	✓	✓	✓	✓
Advanced Color Adjustment	–	✓	✓	✓	✓	✓	✓	✓	✓
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	–	–	–	–	–	–	–	–	✓
OPTIONS & ACCESSORIES									
Portable Recorder	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20	AG-UMR20
Wall Mount (Black) / Wall Mount (White)	–	FEC-40WMA-K / FEC-40WMA-W	FEC-40WMA-K / FEC-40WMA-W	FEC-40WMA-K / FEC-40WMA-W	FEC-40WMA-K / FEC-40WMA-W	FEC-40WMA-K / FEC-40WMA-W	FEC-130WMA-K / FEC-130WMA-W	FEC-130WMA-K / FEC-130WMA-W	-
Ceiling Quick Release Plate	Included	Included	Included	Included	Included	Included	Included	Included	Built-in

*SFP+ module purchased separately. Please reference brochure for recommended models.
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Panasonic

2019 PRO PTZ CAMERA CONTROL LINEUP

NEW! FULL-SIZE CONTROLLER
AW-RP150

Control up to 200 PRO PTZ cameras with this full-size camera controller. Quickly setup and access camera presets and complex image controls and easily control your cameras with a top-of-the line joystick, ensuring smooth camera movements.

- LCD Touchscreen with Touch Focus Functionality
- Camera Monitoring via 3G-SDI
- Industry Approved Ergonomic Design
- 3D Joystick for Single-Handed Operation
- Simplified PTZ Camera Presets & Tracing Memory
- Streamlined Multicamera Deployment
- Integrated 4K Crop Control (for AW-UE150)

NEW! COMPACT CONTROLLER
AW-RP60

Control up to 200 professional PTZ cameras via IP using this compact camera controller. Easily setup and access camera presets and image controls via an intuitive button layout.

- Small Desktop Footprint
- Control up to 200 PTZ cameras
- Equipped with a highly legible 3.5-type LCD
- New precision Joystick for accurate pan/tilt control
- 4-pin XLR 12VDC power in and PoE+ power for flexible power operation

NEW UPDATES! WINDOWS SOFTWARE
PTZ CONTROL CENTER

Use the free PTZ Control Center software to set-up and control your camera on a Windows laptop or desktop PC. With this software, you can utilise your mouse, your touch-screen, or your choice of compatible joysticks or game controllers for camera control.

- Software application that allows for remote operation of Panasonic Professional PTZ cameras via your PC, allowing for control via a standard keyboard/mouse, touchscreen, or a compatible USB joystick / game controller
- Allows for centralised management of multiple PTZ cameras
- Provides simultaneous control of multiple cameras, allowing adjustment of Focus, Iris, Gain, White Balance, Shutter & ND Filters
- Add up to 9 camera presets with thumbnails
- Works on Windows 7, Windows 8.1 & Windows 10

PTZ CAMERA VIRTUAL USB DRIVER
With the free PTZ Virtual USB Driver software, you can convert select Panasonic Professional PTZ cameras on your network into super web cams.

NEW! iPad APP
LIVECTRL

YouTube | f LIVE | CUSTOM RTMP

Use the LiveCTRL app on an iPad Pro to set-up, control and livestream up to 4 Panasonic PRO PTZ cameras.
With this app, you can utilize your tablet to produce your entire show. The app is free to download and allows for full camera preview and control at its most basic tier, allowing controlling, switching and livestreaming of up to 4 cameras via an in-app purchase as you scale your production.

- Livestream directly to Youtube Live, Facebook and other custom streaming destinations
- Automatic PRO PTZ camera discovery, plus support for iOS devices as video or audio sources
- Synchronisation engine ensures all 4 PRO PTZ IP camera streams are perfectly in sync
- Support for overlays, graphics, text, clips & stills

LiveCTRL Panasonic

powered by Cinamaker™

NEW UPDATES! AUTO TRACKING SOFTWARE / SERVER
AW-SF100 / AW-SF200

State-of-the-art auto tracking software option for Panasonic PRO PTZ remote cameras. Dramatically simplify your remote camera operation in locations such as classrooms, lecture halls, auditoriums, conference rooms and stage environments. Using a combination of tracking methods, including template matching, facial detection and deep learning, compatible Panasonic PRO PTZ cameras can be automated to keep track of speakers or lecturers without the need for a dedicated camera operator.

- AW-SF100 (stand-alone software) / AW-SF200 (server)
- Deep Learning, Motion Detection & Facial Recognition used for high-precision auto tracking with minimum tracking error

WEB BROWSER

When your camera is on the network, you can set-up and control it via a web browser on a PC, Mac or mobile device such as an iPhone, iPad or Android device. This is a free, yet powerful option for camera control and setup.

REMOTE OPERATION PANEL
AK-HRP200 / AK-HRP1000 / AK-HRP1005

Ideal for multi-camera shoots that incorporate Professional PTZ and non-PTZ cameras, these advanced remote control panels allow for accelerated fine-tuning of camera color and shading.

AV-HLC100 STREAMSTUDIO

NDI®

Not just a controller, but a full-fledged all-in-one control, production & live streaming system, the AV-HLC100 Stream Studio allows a mixed input of HDMI, SDI and NDI|HX PTZ camera sources (up to 8) for a complete live streaming solution.

- PTZ camera controller, audio mixer, titler, media player, and 1ME live streaming switcher
- Intuitive 3D joystick with pan, tilt, and zoom control
- Stream directly to Youtube Live, Facebook Live, TWITCH, Vimeo, custom RTMP destinations & more

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