Panasonic

2020 PRO PTZ CAMERA LINEUP

	COMPACT ePTZ	ENTRY-LEVEL	HD w/HDMI HD w/SDI		HD PROFESSIONAL	4K PROFESSIONAL	HD PERFORMANCE	4K PERFORMANCE	ALL WEATHER
	NEW				NEW			NEW	
	STANDARD	STANDARD	STANDARD AW-HE40H		STANDARD	STANDARD	STANDARD AW-HE130	PERFORMANCE	OUTDOOR
MODEL NDI ⊢× (NDI N-Series Model)	AW-UE4	AW-HE38H AW-HN38H	AW-HN40H Upgrade Available		AW-HE42 Upgrade Available	AW-UE70 AW-UN70	AW-HE130 AW-HN130	AW-UE150 Upgrade Available	AW-HR140 -
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	1/2.5" MOS	1/2.2" MOC	1/2.3" MOS		1/2.2" MOC	1/2.2" MOC	1/2.0/" 2MOC	1" MOS	1/2.0/" 2MOC
Sensor Optical Zoom	1/2.5 MUS	1/2.3" MOS 22x	30x		1/2.3" MOS 20x	1/2.3" MOS 20x	1/2.86" 3MOS 20x	20x	1/2.86" 3MOS 20x
i.Zoom Digital Zoom	- 4x	30x 16x	40x 16x		30x 12x	30x 12x	- 10x	32x 10x	- 10x
FOV (Horizontal)	111°	61.6° (W) - 2.9° (T)	61.6° (W) - 2.10° (T) 37.0° (W) - 1.18° (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) FOV (Diagonal)	75° 120°	37.0° (W) - 1.6° (T) 68.7° (W) - 3.3° (T)	68.7° (W) - 2.42° (T)		39.5° (W) - 1.83° (T) 72.4° (W) - 3.74° (T)	39.5° (W) - 1.83° (T) 72.4° (W) - 3.74° (T)	36.2° (W) - 1.9° (T) 67.4° (W) - 3.8° (T)	46.7° (W) - 2.3° (T) 82.8° (W) - 4.6° (T)	36.2° (W) - 1.9° (T) 67.4° (W) - 3.8° (T)
Focus Horizontal Resolution	Auto / Manual 1400 Lines	Auto / Manual 1000 Lines	Auto / Manual 1000 Lines		Auto / Manual 1000 Lines	Auto / Manual 1300 Lines (UHD)	Auto / Manual 1000 Lines	Auto / Manual 1600 Lines	Auto / Manual 1000 Lines
Minimum Illumination	4 lx	0.35 lx	0.35 lx		0.35 lx	0.35 lx	2 lx	2 lx	2 lx
Gain Control	0 dB - 42dB IP / IR	0 dB - 48dB Serial / IP / IR	0 dB - 48 dB Serial / IP / IF		0 dB - 48 dB Serial / IP / IR	0 dB - 48 dB Serial / IP / IR	0 dB - 36 dB Serial / IP / IR	0 dB - 36 dB Serial / IP / IR	0 dB - 42 dB Serial / IP
Power PoE Wattage	PoE or USB ¹ Up to 15W	PoE+ or AC Up to 30W	PoE+ or AC Up to 30W		PoE+ or AC Up to 30W	PoE+ or AC Up to 30W	PoE+ or AC Up to 30W	PoE++ or XLR ¹ Up to 100W	PoE++ or XLR ¹ Up to 60W
Power Consumption	1 A (USB / DC 5V) 0.2 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)	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	1.10 lbs	3.30 lbs	3.30 lbs		3.30 lbs	0.5 A (PoE+) 3.30 lbs	6.83 lbs	9.24 lbs	19.8 lbs
Installation	Tripod, Wall, Ceiling Invertible: Ceiling	Tripod, Wall, Ceiling Invertible: Ceiling	Tripod, Wall, Ceiling		Tripod, Wall, Ceiling Invertible: Ceiling	Tripod, Wall, Ceiling Invertible: Ceiling	Tripod, Wall, Ceiling Invertible: Ceiling	Tripod, Wall, Ceiling Invertible: Ceiling	Wall, Ceiling Invertible: Ceiling
Mount Position PTZ	or Desktop	or Desktop	Invertible: Ceiling or Desktop		or Desktop	or Desktop	or Desktop	or Desktop	or Desktop
Pan Range	±175° (manual)	±175 degrees	±175 degrees		±175 degrees	±175 degrees	±175 degrees	±175 degrees	±175 degrees
Tilt Range Pan / Tilt Speed	±25° (manual)	-30 to 90° 300°/s (Preset)	-30 to 90° 300°/s (Preset) 90°/s (M)		-30 to 90° 300°/s (Preset)	-30 to 90° 300°/s (Preset)	-30 to 210° 0.08°/s to 60°/s	-30 to 210° ~180°/s	-30 to 210° 60°/s
Operation Noise	-	90°/s (M) NC35 or Less	NC35 or Less		90°/s (M) NC35 or Less	90°/s (M) NC35 or Less	NC35 or Less	~180°/s NC35 or Less	NC45 or Less
VIDEO OUTPUT	√	√	√	√	√	√	√	√	√
NDI HX	-	AW-HN38H		with upgrade)	✓ (with upgrade)	AW-UN70	AW-HN130	✓ (with upgrade)	-
Optical Fiber 12G-SDI	-	-	-	-	-	-	-	√ *	-
3G-SDI	-	-	-	-	√	√	√	✓	✓
HD-SDI HDMI	- ✓	- ✓	- ✓	-	✓ ✓	✓ ✓	✓ ✓	✓ ✓	-
Composite USB	- ✓ (USB-C)	- ✓ (mini-USB)	- ✓ (mini-USB) ✓	- (mini-USB)	- ✓ (mini-USB)	- ✓ (mini-USB)	✓	-	-
CONTROL	▼ (USB-C)	V (Mini-USB)	V (MINI-USB)	(MINI-USB)	▼ (IIIIIII-U3B)	V (Milili-USB)	-	-	-
Browser (PC/Mac/Mobile) via IP USB	✓ (USB-C)	✓ (mini-USB)	✓ (mini-USB	()	✓ (mini-USB)	✓ (mini-USB)	-	-	-
VISCA Auto Tracking /	-	✓ AW-SF100 /	✓		✓ AW-SF100 /	✓ AW-SF100 /	- AW-SF100 /	- AW-SF100 /	-
Auto Tracking Server	- AV III 0100	AW-SF200	AW-SF100 / AW-SF200		AW-SF200	AW-SF200	AW-SF200	AW-SF200	- AV-HLC100
Live Stream Studio iPad App	AV-HLC100	AV-HLC100 LiveCTRL App	AV-HLC100 LiveCTRL App		AV-HLC100 LiveCTRL App	AV-HLC100 LiveCTRL App	AV-HLC100 LiveCTRL App	AV-HLC100 LiveCTRL App	LiveCTRL App
iPad + Wide-Angle Camera IR Remote Control	- AW-RM50	AW-HEA10 AW-RM50	AW-HEA10 AW-RM50		AW-HEA10 AW-RM50	AW-HEA10 AW-RM50	AW-HEA10 AW-RM50	AW-HEA10 AW-RM50	-
Compact Controller	AW-RP60**	AW-RP50 / AW-RP60	AW-RP50 / AW-RP60		AW-RP50 / AW-RP60	AW-RP50 / AW-RP60	AW-RP50 / AW-RP60	AW-RP50 / AW-RP60	AW-RP50 / AW-RP60
Full-Size Controller	-	AW-RP150	AW-RP150		AW-RP150	AW-RP150	AW-RP150	AW-RP150	AW-RP150
Remote Operation Panel (ROP/RCP)	-	AK-HRP200 AK-HRP1000	AK-HRP200 AK-HRP1000 / AK-HRP1005		AK-HRP1000 AK-HRP1005	AK-HRP200 AK-HRP1000	AK-HRP200 AK-HRP1000	AK-MSU1000 AK-HRP1000	AK-HRP200 AK-HRP1000
Compact Live Switcher	AW-HS50N	AK-HRP1005 AW-HS50N	AW-HS50N		AW-HS50N	AK-HRP1005 AW-HS50N	AK-HRP1005 AW-HS50N	AK-HRP1005 AW-HS50N	AK-HRP1005 AW-HS50N
Software Controller (Windows) FEATURES	-	PTZ Control Center	PTZ Control Center		PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center	PTZ Control Center
IP Live Preview / Output	✓	√	√ Flacture is		✓	✓	√	√	√
Image Stabilization Night Mode (for IR)	-	Electronic ✓	Electronic ✓		Optical ✓	Optical ✓	Optical ✓	Optical ✓	Optical / D.I.S.S. ✓
Dynamic Range Stretch (DRS) Audio Input / Embedding	✓ ✓	✓ ✓	✓ ✓		✓ ✓	✓ ✓	√ √	√ √	√ √
Color Temperature Adjustment	√	√	✓		√	✓	✓	✓	✓
Presets microSD Card Recording	Up to 100	Up to 100 ✓	Up to 100 ✓		Up to 100 ✓	Up to 100 ✓	Up to 100 -	Up to 200 -	Up to 100 -
High Dynamic Range (HDR) Direct Streaming Function	-	-			-	-	-	√ √	-
Fanless Design	✓	√	√ ·		✓	✓	✓	-	-
Built-in ND Filters Genlock	-	-	- -		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
Advanced Color Adjustment Digital Noise Reduction (DNR)	-	✓ ✓	√		√ √	√ √	√ √	√ √	√ √
Position Tracking for AR/VR	-	-	-		-	-	-	√	-
HD Cropping in 4K Mode High-Wind Resistance	-	-	-		-	-	-	-	- ✓
Lens Wiper / Haze Reduction Built-In Heater / Defroster	-	-	- -		-	-	-	-	√ √
V-LOG Support	-	-	-		-		-	✓	-
Water & Dust Proof OPTIONS & ACCESSORIES	-	-	-		-	-	-	-	✓
Portable Recorder Wall Mount (Black -K) /	AG-UMR20 Included	AG-UMR20 FEC-40WMK/	AG-UMR20		AG-UMR20 FEC-40WMK/	AG-UMR20 FEC-40WMK /	AG-UMR20 FEC-150WMK /	AG-UMR20 FEC-150WMK /	AG-UMR20 FEC-140WMR
Wall Mount (White -W)	Included with Camera	FEC-40WMW	FEC-40WMK / FEC-40WMW		FEC-40WMW	FEC-40WMW	FEC-150WMW	FEC-150WMW	FEC-140WMR (silver)
Pole Mount Adapter Ceiling Mount	Included	FEC-PA1	FEC-PA1 Included		FEC-PA1	FEC-PA1	FEC-PA1 Included	FEC-PA1 Included	– Built-in
Weatherproof Cooled	with Camera	PAN-D2-CD/CDF/CDP	PAN-D2-CD/CDF/CDP		PAN-D2-CD/CDF/CDP	PAN-D2-CD/CDF/CDP	PAN-HD12-CD	PAN-HD12-CD	- Buitt-III
Outdoor Housing Heated 3 Year Warranty	- AC-SVCPREF2Y	PAN-D2-HB/HBF AG-SVCPREF2Y	PAN-D2-HB/HBF AG-SVCPREF2Y		PAN-D2-HB/HBF AG-SVCPREF2Y	PAN-D2-HB/HBF AG-SVCPREF2Y	PAN-HD12-HB AG-SVCPREF2Y	PAN-HD12-HB AJ-SVCPREF2Y	-
5 Year Warranty	-	AG-SVCPREM4Y	AG-SVCPREM4Y		AG-SVCPREM4Y	AG-SVCPREM4Y	AG-SVCPREM4Y	AJ-SVCPREM4Y	-
On-Site Training	AJ-S09TFMCNS	AJ-S09TFMCNS	AJ-S09TFMCNS \$3,150 \$3,695		AJ-S09TFMCNS	AJ-S09TFMCNS	AJ-S09TFMCNS	AJ-S09TFMCNS	AJ-S09TFMCNS
MSRP (BASE MODEL)	\$1,200	\$2,200	\$3,150	\$3,695	\$4,250	\$5,850	\$7,295	\$11,400	\$17,950

Panasonic

2020 PRO PTZ CAMERA CONTROL LINEUP

NEW! FULL-SIZE CONTROLLER 1Ш-RР150

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 w/Touch Focus Functionality
- Camera Monitoring via HD-SDI
- Industry Approved Ergonomic Design
- 3D Joystick for Single-Handed Operation
- Simplified PTZ Camera Presets & Tracing Memory
- Streamlined Multicamera Deployment
- Power via PoE+ or XLR¹



NEW! COMPACT CONTROLLER AW-RP60

Control up to 200 PRO PTZ cameras, with this full-featured controller. An LCD screen displays menus & key camera information such as iris, zoom and focus.





COMPACT CONTROLLER

AW-RPS0

Control up to 100 PRO PTZ cameras via IP using this compact camera controller1. Easily setup and access camera presets and image controls.



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 utilize 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 centralized 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







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
- Synchronization engine ensures all 4 PRO PTZ IP camera streams are perfectly in sync
- Support for overlays, graphics, text, clips & stills
- Full featured 30-day free trial available





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, vet powerful option for camera control and setup.



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



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



NEW! ROBOTIC DOLLIES, **TELESCOPIC COLUMNS** & CEILING/FLOOR TRACKS

عمالا

The first robotic system with tracks to be fully integrated with Panasonic PRO PTZ cameras. The direct system integration allows for full control of the dolly, column and the camera from a single controller





/V-HLC100 STREAMSTUDIO

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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

