**2020 PRO PTZ Camera Lineup**

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard</th>
<th>Entry-Level</th>
<th>HD-SDI/HDMI</th>
<th>HD SDI/HDMI</th>
<th>HD-SDI/HDMI</th>
<th>HD-Professional</th>
<th>HD-Performance</th>
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<th>Outdoor</th>
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<tbody>
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</table>

**Camera Body Color:**
- Black (K)
- White (W)
- Black (K) or White (W)
- Black (K) or White (W)

**Optical Zoom:**
- 12x (ex-HC Models)
- 20x (ex-HC Models)

**Digital Zoom:**
- 6x

**i.Zoom:**
- 6x

**PTZ Resolution (HD):**
- 720p (AW-HEA100)
- 1080p (AW-HEA100)

**i.Zoom:**
- 1/2.3" MOS
- 1/2.5" MOS

**Mount Position:**
- Invertible: Ceiling or Desktop
- Ceiling Mount
- Wall Mount

**Control:**
- Remote Operation Panel
- Full-Size Controller
- LiveCTRL App
- MicroSD Card Recording
- Audio Embedding / Embedding
- Color Temperature Adjustment
- Minimum Illumination
- Focus
- FOV (Horizontal)
- Sensor
- Minimum Illumination
- Focus
- FOV (Horizontal)
- Sensor

**Inputs:**
- SDI (BNC)
- 1/2.3" MOS
- 1/2.5" MOS
- 1/2.8" MOS
- 1/4" MOS
- 1/16" MOS
- 1/64" MOS

**Power Supply:**
- 100 V to 240 V, 50/60 Hz
- 12 V DC (PoE)
- 12 V DC (PoE)

**Fan:**
- 0 dB – 48 dB

**Weight:**
- 1.2 A (AC)
- 0.6 A (PoE)

**Minimum Illumination:**
- 0.2 lx

**Mounting:**
- Ceiling Mount
- Wall Mount
- Accessories

**Software:**
- LiveCTRL App
- LiveCTRL App
- LiveCTRL App
- LiveCTRL App

**Lens with Camera:**
- AG-SVCPREM4Y
- AG-HMR50K
- AG-HMR50W
- AG-HMR50K-1
- AG-HMR50W-1

**Power:**
- 100V to 240V, 50/60Hz
- 100V to 240V, 50/60Hz

**Dimensions:**
- 25x42

**Mounting:**
- Ceiling Mount
- Wall Mount

**Water & Dust Proof:**
- IP66 Rated

**Options & Accessories:**
- Wall Mount (Black-K / White-MW)
- Wall Mount (Black-K / White-MW)
- AG-HMR50K
- AG-HMR50W
- AG-HMR50K-1
- AG-HMR50W-1

**Ceiling Mount:**
- AG-PMK43GH
- AG-PMK43GH
- AG-PMK43GH
- AG-PMK43GH

**Inputs:**
- HDMI
- HDMI
- HDMI
- HDMI

**Outputs:**
- HDMI
- HDMI
- HDMI
- HDMI

**Audio:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Remote:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Network:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Security:**
- Built-in D5 Filters
- Built-in D5 Filters
- Built-in D5 Filters
- Built-in D5 Filters

**Features:**
- Advanced Audio Adjustments
- Advanced Audio Adjustments
- Advanced Audio Adjustments
- Advanced Audio Adjustments

**Options:**
- License Activation
- License Activation
- License Activation
- License Activation

**Software:**
- License Key
- License Key
- License Key
- License Key

**Mounting:**
- Ceiling Mount
- Ceiling Mount
- Ceiling Mount
- Ceiling Mount

**Inputs:**
- HDMI
- HDMI
- HDMI
- HDMI

**Outputs:**
- HDMI
- HDMI
- HDMI
- HDMI

**Audio:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Remote:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Network:**
- 5/32 Power
- 5/32 Power
- 5/32 Power
- 5/32 Power

**Security:**
- Built-in D5 Filters
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**Features:**
- Advanced Audio Adjustments
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**Options:**
- License Activation
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- License Activation

**Mounting:**
- Ceiling Mount
- Ceiling Mount
- Ceiling Mount
- Ceiling Mount

**Inputs:**
- HDMI
- HDMI
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**Outputs:**
- HDMI
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**Audio:**
- 5/32 Power
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**Remote:**
- 5/32 Power
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**Network:**
- 5/32 Power
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2020 PRO PTZ CAMERA CONTROL

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 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 XLR

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-RP50
Control up to 100 PRO PTZ cameras via IP using this compact camera controller. 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

NEW! iPad APP
LIVECTRL
Use the LiveCTRL app on an iPad 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

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

NEW! ROBOTIC DOLLYS, TELESCOPIC COLUMNS & CEILING/FLOOR TRACKS
TECHNOPOINT TUNING
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.

NEW! PTZ CONTROL CENTER SOFTWARE
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 UPDATES! 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-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.

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