PTZ Camera System Solutions Software Lineup

Panasonic CONNECT



Highly Efficient Software-based Remote Operation

PTZ cameras are being used for a growing range of applications of varying scales-classroom lectures, conference presentations, broadcast programs, competitions in stadiums and other diverse types of events-offering versatile options for not only the creation of recordings but also delivering live streaming and webinars. For many years, Panasonic has been a leading provider of PTZ cameras and related equipment and solutions that meet diverse customer needs. Today, as the role of software continues to expand in many fields, Panasonic's extensive lineup of PTZ cameras is being increasingly integrated with easy-to-use software for more efficient PTZ Camera System Solutions.



Facial Recognition and Human Body Detection for High-precision Tracking, Intuitive and Flexible Shooting



Auto Tracking Software Key

Standalone and Webapplication versions

AW-SF100

Server versions

2 additional licenses

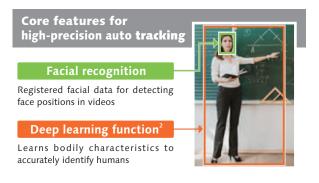
3 additional licenses **AW-SF203**



Simple, accurate and functional auto-tracking. Various functions are also available to achieve advanced operations.

¹ Simply install the Auto Tracking Software for a 90-day free trial, after which a software key may be purchased to continue using auto tracking.

² Software update may be required before use. Restrictions may apply depending on user's server or PC. See "Auto Tracking Software."



1. Facial Recognition and Human Body Detection for Accurate Auto-tracking

Watch

video

Detects registered faces even in challenging conditions

Using software-registered faces, the system detects faces in videos for highly accurate auto-tracking. From auditorium lectures to dimly lit environments, Panasonic's proprietary database can quickly detect and authenticate small, hard-to-see faces.

Note: Uses facial recognition software from Panasonic Connect Co., Ltd.

Wider-angle view if speaker is lost and then auto-tracking once target is reconfirmed

The screen switches smoothly to a wider homeposition view if the camera loses track of the person speaking, and then back to auto-tracking once the target is reconfirmed. Quiet, stable images allow operators to deliver viewer-friendly content and students to focus with minimal distraction.

Accurate human-body detection even tracks masked faces

Under the New Normal, there now are many occasions when people speak while wearing a mask or face shield. Thanks to deep learning, however, Panasonic's solution can accurately track masked speakers based on their bodily characteristics. Tracking can be initiated the moment a person is detected in the video, even without registering for facial recognition. Targets occupying a mere 1-2% of the total screen can be detected and tracked, even if they move around on a stage, crouch down or are partially hidden by a podium or lectern.

Note: The software may need to be updated before use. Restrictions may apply depending on the user's server or PC. See "Auto Tracking Software."

2. Easy Installation and Operation

GUI for intuitive settings

The intuitive GUI includes just essential icons to greatly reduce operator burdens.



Notes: Provisions for manual override by an operator are recommended if usage conditions result in the camera making a false detection or failing to detect a target. The screen layout may differ depending on the software version.

IP-based software for remote operation

IP-based software and connections for streaming and control enable cameras to be operated in remote classrooms.

Simple, low-cost installation without sensors or other devices

After installing the Auto Tracking Software in a server or PC, simply connect a 4K/HD Integrated Camera and your auto-tracking system is ready to go. Sensors or other equipment are not required, keeping the configuration simple and the startup cost low.

3. Advanced Auto Tracking Functions

Auto Zoom¹

Clicking the Auto button² below the GUI's zoom slider initiates auto-zoom to maintain the size of the subject constant. The default size can be adjusted as required with Auto Zoom Size. Tracking and capturing a subject with the desired screen composition is possible even if the person actively moves around a stage.

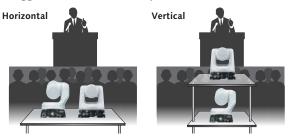
¹ Not available with AW-UE4.
² Not displayed when Tracking Mode is set to Crop.



Linking a wide-angle camera (AW-SF100 only)

Tracking stability can be improved by linking a wideangle camera¹ for a bird's-eye view. As long as this camera captures the subject, it can immediately rediscover the tracking target and resume tracking² even if the tracking camera ever loses the target. The bird's-eye view camera also can be used for scene overviews, including to support camera operation when video-production errors are unacceptable, such as in live streaming.

<Suggested orientation examples>



 Only Panasonic PTZ Cameras supporting this software can be used as wide-angle cameras. The AW-UE4 cannot be used as a tracking camera.
² Does not use facial recognition for tracking.





Linkage with FreeD¹ (AW-UE150W/K, UE100W/K and UE80W/K only)

FreeD can be linked to the Auto Tracking Software for easy AR/VR shooting without the need for a large system.

¹ FreeD is a camera tracking-data protocol for AR/VR systems.

Presets

Various settings can be registered as presets for easy operation.

Main screen

- Start/end position of tracking
- Facial recognition
- View angle (upper, full or whole body, or none)
- Pan/tilt range

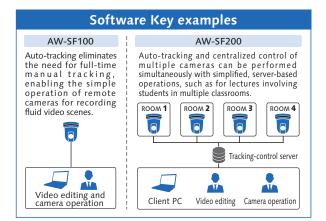
Tracking

- Operation when tracking target detected
- Operation when preset activated
- Camera tracking sensitivity
- Range without auto-tracking

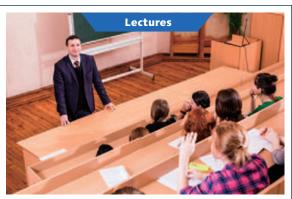
4. Software Options

AW-SF100 (standalone/web versions) and AW-SF200 (on server)

The AW-SF100 can be used as a web application to support control via a tablet, smartphone, desktop, etc. The AW-SF200, meanwhile, uses a floating license for flexible operations matched to the user environment, providing centralized control of multiple cameras.



Auto-tracking Applications



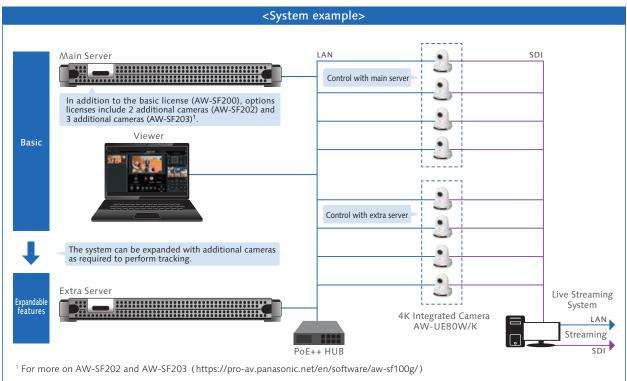






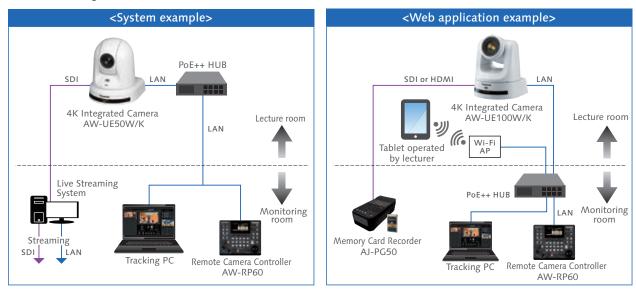


Using a centralized server for simultaneous auto tracking and to control multiple cameras in a large hall as well as multiple classrooms



• AW-SF100 Example: Classroom Lecture

Auto tracking and control of one camera with one PC



PC system requirements

https://pro-av.panasonic.net/en/software/aw-sf100g/ Note: GPU required for Version 5.0.7 or later.



Device-integration APIs for external control

https://eww.pass.panasonic.co.jp/pro-av/support/ content/guide/EN/top.html#PTZ

Watch video about Auto Tracking and Visual Preset software (from downloading to operation):





Preset to Switch Subject of Multiple PTZ Cameras with Single Click

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Visual Preset Software Key

AW-SF300

GUI screen for switching subject of multiple PTZ Cameras with single click



video

¹ 90-day free trial available after Visual Preset Software installed. To continue using visual preset, please purchase separate software key.



1. Efficient, Centralized Control

Simultaneous control of multiple **PTZ Cameras for multi-angle views**

All cameras registered in a group can be directed toward a subject just by tapping the GUI's Preset Group icon. Intuitive mouse/GUI control is ideal for users unfamiliar with video equipment operation.

2. Easy Registration and Operation

GUI simplifies operation and preset registration

A separate GUI screen can be set for each shooting location, making it easy to manage the Preset Group for the registered camera subjects. Camera positions can be set with icons on the GUI screen and each camera's icon in the active Preset Group is highlighted, enabling cameras in operation to be confirmed at a glance.



preset numbers

screens

Cat5e (or later) LAN cable 4K Integrated Camera AW-UE50W/K SDI Flat Panel Display Audio Line . 4K Integrated Camera AW-UE80W/K 1 LCD Video Monitor BT-LH1770 PoE++ HUB 4K Integrated Camera AW-UE80W/K Memory Card Portable Recorder AG-UMR20 Distributo . Broadcasting En Streaming Switcher Remote Camera Controller + AW-SF300 (sold separately) AW-RP60

Visual Preset applications



PC system requirements

https://pro-av.panasonic.net/en/software/aw-sf300/





Central Control of Multiple PTZ Cameras with PC while Viewing Video



PTZ Control Center

Free software enables centralized management and control of multiple PTZ Cameras while viewing video with a PC. Pan, tilt, zoom and other camera functions can be controlled from the GUI screen.



1. Intuitive Management and Control of Multiple PTZ Cameras while Viewing Video

GUI for intuitive control and operation

The GUI makes it easy to use a PC for intuitive control of multiple PTZ Cameras, including pan, tilt and zoom as well as adjustments such as focus, iris, gain, white balance, shutter, and ND filter. Up to 100 presets can be registered with thumbnails for quick recall. AW-RP150 linkage tab button Camera controller PTZ control Focus control

Pan/Tilt control of live video is possible just by touching a panoramic still picture taken in advance, enabling quick switching of shooting angles even in large venues. A wide video shot with a Control Assist Camera (AW-HEA10W/K; discontinued) can also be used.



Camera-feed GUI supports max. 16 cameras



Preset List for easy management

Presets can be listed, registered, modified, and reordered. View, Main, and Preset List screen tabs can be displayed separately on multiple PCs. The Preset List background color is customizable.

2. PC-enabled PTZ Camera Management and Control

Easy management through networking

Networked cameras can be detected/configured automatically and settings can be transferred between PCs. Also, camera access can be limited to designated users.

Simple, intuitive operation with common devices

When using a mouse, simply move the cursor over an image and then zoom in and out with the mouse wheel. Zooming within a specified range also is possible with two fingers on a touch screen. To specify the range with a mouse, left click and drag. Common tools such as numeric keypads, keyboard arrow keys and commercial game controllers (USB joystick with max. 10 controllers) also are supported.

<Main Supported Operations> PTZ Camera pan, tilt and zoom Preset recall Switching between cameras



See PTZ Controller page for compatible controllers.

PC system requirements

https://pro-av.panasonic.net/en/software/ptz_cc/



Efficient, centralized control and management of multiple cameras

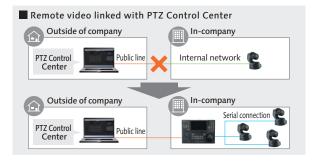
Pan/tilt/zoom, preset register/recall/delete, focus, iris, and other functions can be controlled simultaneously on any number of PTZ Cameras. Also, multiple PTZ Camera presets can be recalled simultaneously with the Visual Preset Software Key (AW-SF300¹ sold separately) EasyIP Setup Tool Plus², a free bundled software, simplifies management, including batch updates of camera firmware.

¹ See page 7 for details ² See page 11 for details

3. Optional Equipment for Enhanced Operability

Secure remote production via public network

The PTZ Control Center can be linked with the Remote Camera Controller (AW-RP150) for a secure remoteproduction configuration capable of satisfying strict corporate-security policies for remote video. A fully internal network can be established by connecting the PTZ Control Center's on-site PC to the AW-RP150 at the user's office via a public line and then serially connecting the AW-RP150 to an on-site camera. The PTZ Control Center's GUI controls camera pan, tilt and zoom as well as presets.



Other remote control and management

Panasonic's Professional Portable Recorder System (AG-UMR20/AG-UCK20GJ), Surgical Image Recording System (AG-MDR25/AG-MDC20GJ), and Professional Camcorder/Recorders (AJ-CX4000GJ) are supported for enhanced camera control and management.

Software for Using LAN-based PTZ Cameras as Virtual USB Cameras



PTZ Virtual USB Driver

Any Panasonic PTZ camera or professional camera recorder¹ on your LAN can be recognized and used as a USB camera.

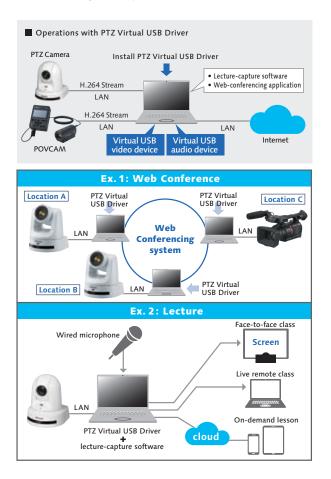
¹ Professional Camcorder/Recorder (AG-CX350 & AJ-CX4000GJ)



1. High-quality Video for Web Conferencing and Lectures

Using LAN-based PTZ Cameras as virtual USB cameras

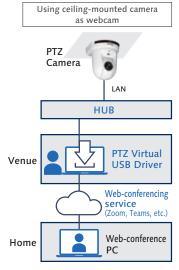
Panasonic PTZ Cameras and Professional Camera Recorders lacking a USB port can be recognized as virtual USB cameras via LAN connection, enabling Webconferencing applications or lecture-capture software to be used for high-quality video.



2. Remote PTZ Cameras Used as Webcams

Achieving remote operation when USB cable connection not possible

PTZ cameras installed in ceilings or other places not accessible via USB cable can be used as virtual USB cameras. Also, multiple PTZ Cameras can be connected to a PC via a single LAN cable for a simple system design.



3. PTZ Camera Operation via Panopto GUI

Efficient remote lectures

PTZ Cameras can be controlled with the Panopto Lecture Capture Software GUI.

Note: Functions may vary depending on app being used.

PC system requirements

https://pro-av.panasonic.net/en/software/ptz_vud/



Freeware for Easy Setup & **Operation of PTZ Cameras**

Note: The Visual Preset Software Key (AW-SF300) and PTZ Control Center are included and do not require separate installation.



EasyIP Setup Tool Plus

EasyIP Setup Tool Plus is a freeware for the centralized management of diverse network settings and firmware updates, making it easy to set up and operate multiple PTZ Cameras in a range of situations, including installation and setup for events.

Centralized PTZ Cameras management & configuration DIGEN OF T

1. Efficient Operation

On-site preparation

Panasonic PTZ Cameras connected to a PC can be detected and listed. Users can check camera information such as IP address and version number, and configure camera settings. For example, Auto IP assigns a series of IP addresses to PTZ Cameras, Identify¹ makes the power indicator of the active cameras flash for quick identification, and Administrator Registration² simultaneously assigns administrator accounts to selected PTZ Cameras. The HD Studio Camera (AK-HC3900/3900S), Camera Control Unit (AK-HCU250/ HUC250S) and AK-UCU600/UCU600S (requires AK-NP600G) are supported for the combined operation of PTZ cameras and studio cameras.

2. PTZ Camera Status at a Glance

Streamlined daily management and maintenance

Network Settings allows any PTZ camera to be configured from the GUI screen and Web GUI uses the browser of the selected PTZ camera. Also, Firmware Update³ automates PTZ camera firmware updates without accessing the website. NDI[®] | HX activation is also available³.

- AW-UE150W/K, AW-UE100W/K, AW-UE80W/K, AW-UE50W/K and AW-UE40W/K only For AW-UE150W/K, AW-UE100W/K, AW-UE80W/K, AW-UE50W/K,
- AW-UE4-W/K and AW-UE4WGN/KGN only. Once set, the administrator account cannot be reassigned. ³ PC must be connected to network

PC system requirements

https://pro-av.panasonic.net/en/software/easyip_plus/



Full-HD Outdoor Integrated Camera

AW-HR140

PTZ Camera System Lineup 4K 60p/50p¹ output, high-magnification zoom and wide-angle shooting for flexible HD PTZ camera that enables high-quality 4K 60p/50p¹ NDI^{®3}&SRT⁴ supported PTZ Models to respond to a wide range of video Camera with a compact body and a wide range of features video production even in dark environments production needs, such as recording of reality shows and events video production HD Integrated Camera 4K Integrated Camera 4K Integrated Camera 4K Integrated Camera AW-HE145W/K AW-UE150W/K V-Log Support² AW-ŬE100W/K AW-ŬE80W/K US and Europe only mode Compact 4K entry model suitable for use in meeting rooms and classrooms with limited space Compact PTZ Camera suitable for use in meeting rooms and classrooms with limited space Compact 4K PTZ Camera equipped with an ultra-wide-angle lens with Outdoor integrated pan-tilt full-HD camera with high sensitivity, high S/N ratio, and high resolution Standard models suitable for use in online classes and briefing sessions a 111° field of view and perfect for fixed point shooting acking Software Key is not supported. (Auto (If the Auto Tracking Software Key is added, the

4K Integrated Camera AW-UE50W/K AW-UF40W/K



4K Integrated Camera AW-ŬE20W/K



HD Integrated Camera AW-HE20W/K



AW-ŬE4WG/KG



To use the Auto Tracking function

When installing Auto Tracking Software, 90-day free trial is available. To continue the usage of the Auto Tracking function, purchase and installation of the Auto Tracking Software Key is required. Please contact Sales company to purchase a software key.

- 1) Install the Auto Tracking Software.
- 2) Order the Auto Tracking Software Key from a vendor.
- 3) A box contains the key code will be delivered.
- 4) The box will contain a sheet with the key code and an Installation Guide.

Activate according to the Installation Guide.

Eligible users of the 90-day free trial extension are limited to those using the free AW-SF100/200 trial for the first time and those who have started using the free trial within the last 90 days. If you have already started using the free trial, a software version upgrade will be required.

To use the Visual Presets function

When installing Visual Presets Software, 90-day free trial is available. To continue the usage of the Visual Presets function, purchase and installation of the Visual Presets Software Key is required. Please contact Sales company to purchase a software key.

- 1) Install the Visual Presets Software.
- 2) Order the Visual Presets Software Key from a vendor.
- 3) A box contains the key code will be delivered.
- 4) The box will contain a sheet with the key code and an Installation Guide.

Activate according to the Installation Guide.

Eligible users of the 90-day free trial extension are limited to those using the free AW-SF300 trial for the first time and those who have started using the free trial within the last 90 days. If you have already started using the free trial, a software version upgrade will be required.

Handling of personal information registered in our software

We do not collect, store, or share within our organization any personal information, including photographs of individuals registered on the software listed in this catalog. Any information registered in the software will be stored only in the system environment (PC or server) where the Auto Tracking Software is installed and will not be stored in any other location.

•Microsoft®, Windows® and Windows® 10 are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

•Apple, Mac, OS X, iPhone, iPod Touch, iPad, and Safari are registered trademarks of Apple Inc., in the United States and other countries

- AndroidTM is a trademark of Google Inc. •"YouTube" and the "YouTube logo" are registered trademarks of Google Inc.
- NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI® is a registered trademark of NewTek, Inc. in the United States and other countries. In this instance, NDI® is used to indicate low latency with high bandwidth NDI®.

·Specifications are subject to change without notice.



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Factories of Panasonic Connect Co., Ltd. have received ISO14001:2015-the Environmental Management System certification. (Except for 3rd party's peripherals.)



For more information, please visit Panasonic web site https://pro-av.panasonic.net/en/qr/



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