Panasonic

Software Lineup
Broadcast and Professional AV

Easy and efficient shooting and operation with seamless camera and software integration

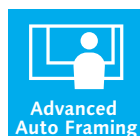| Device View | PTZ Control | Auto Tracking | Advanced Auto Framing | Visual Preset | Video Mixer | Virtual USB |
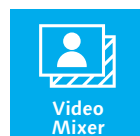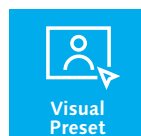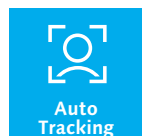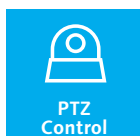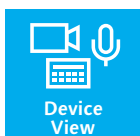
Media Production Suite for Efficient Operation of Camera Systems

The software platform provides functions to improve video-recording quality and efficiency with Panasonic cameras in a variety of settings, including online lectures, webinars, conferences, lectures and studio shoots. Key features include centralized device management and monitoring, and simplified camera setup, management and control in demanding shooting environments. Paid plug-ins provide additional features to streamline operations and enable high-quality video production with minimal staff.

Media Production Suite Introduction (video):
https://www.youtube.com/watch?v=V4NVIa39dc8

Basic Functions
for smooth video shooting

Plug-ins (Additional Fee)*1
for specific needs

Device View
Easy and efficient device setup and operation

>>> see p.4 for details

Auto Tracking
Accurate tracking technology using facial recognition and human body detection

>>> see pp.6 and 7 for details

NEW

Advanced Auto Framing*2
Automatically capture natural, high-quality, well-framed video with PTZ cameras

>>> see p.8 for details

PTZ Control
Easily manage and monitor multiple PTZ cameras via batch control from a PC

>>> see p.5 for details

Visual Preset
Switch subject of multiple PTZ cameras with a single click

>>> see p.9 for details

Video Mixer
Subject keying regardless of the shooting location and easy composition of video materials

>>> see pp.10 and 11 for details

Media Production Suite

*1: See "Before using Media Production Suite paid plug-ins" on page 12. *2: The screen is under development and the actual specifications may differ.

For users of existing PTZ camera software (EasyIP Setup Tool Plus, PTZ Control Center, and Auto Tracking Software)
Existing PTZ camera software (except for PTZ Virtual USB Driver) have been integrated into the Media Production Suite. Existing software can still be used, but future updates will be implemented for the Media Production Suite only. AW-SF100/200/202/203 or AW-SF300 licenses used on the existing software can continue to be used as plug-ins licenses for the Media Production Suite (Some specifications of plug-ins may vary from the existing software).**For more Information (FAQ):** https://eww.pass.panasonic.co.jp/pro-av/support/content/faq/EN/faq_mps.htm

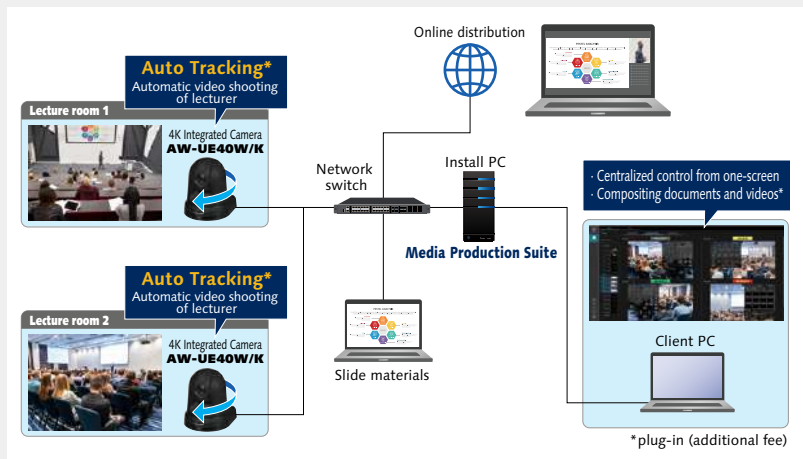# Media Production Suite for Smart Operation and Rich Expression

Features
▶ **Enhanced Efficiency with Smart Operation**
▶ **Expand Your Creative Capabilities with Optional Plug-Ins**
▶ **Intuitive Operation with a Unified GUI**

● **Sample Applications**

CASE 01

Easy management of PTZ cameras in different classrooms during online lecture
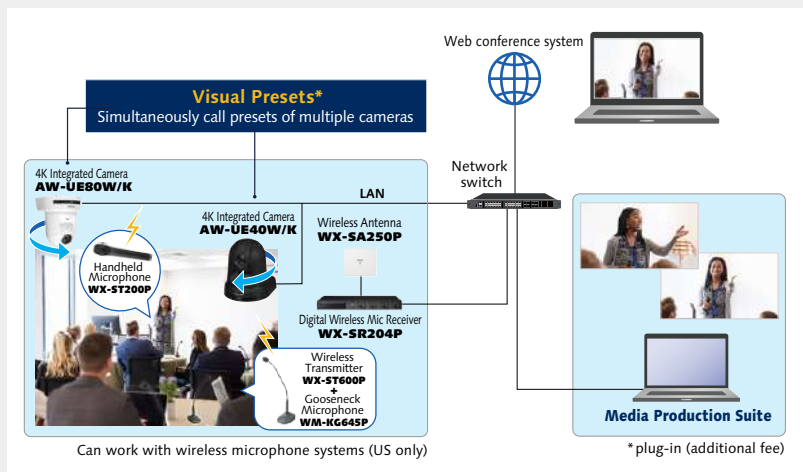
Manage PTZ cameras in separate classrooms from a single PC.
Quickly check connection status and automatically update firmware, even on a large scale, such as cameras in numerous classrooms on a big university campus.
Use the Auto Tracking plug-in to eliminate the need for dedicated personnel and controllers, making the recording and delivery of daily lectures simple and efficient.

Online distribution

Auto Tracking*
Automatic video shooting of lecturer
Lecture room 1
4K Integrated Camera **AW-UE40W/K**

Auto Tracking*
Automatic video shooting of lecturer
Lecture room 2
4K Integrated Camera **AW-UE40W/K**

Network switch
Install PC
Media Production Suite
Slide materials

· Centralized control from one-screen
· Compositing documents and videos*
Client PC
*plug-in (additional fee)

CASE 02

Fluid Hybrid Conference with Easy Operation

With one click on a PC screen, use the Visual Preset plug-in to point all cameras at a speaker. Also, link a PTZ camera to a Panasonic wireless microphone to automatically point the camera to anyone who speaks into the microphone, making it easy to locate speakers at a hybrid conference.

Web conference system

Visual Presets*
Simultaneously call presets of multiple cameras

4K Integrated Camera **AW-UE80W/K**
4K Integrated Camera **AW-UE40W/K**
Handheld Microphone **WX-ST200P**

LAN
Wireless Antenna **WX-SA250P**
Digital Wireless Mic Receiver **WX-SR204P**
Wireless Transmitter **WX-ST600P** + Gooseneck Microphone **WM-KG645P**

Network switch
Media Production Suite

Can work with wireless microphone systems (US only)
*plug-in (additional fee)

System requirements:
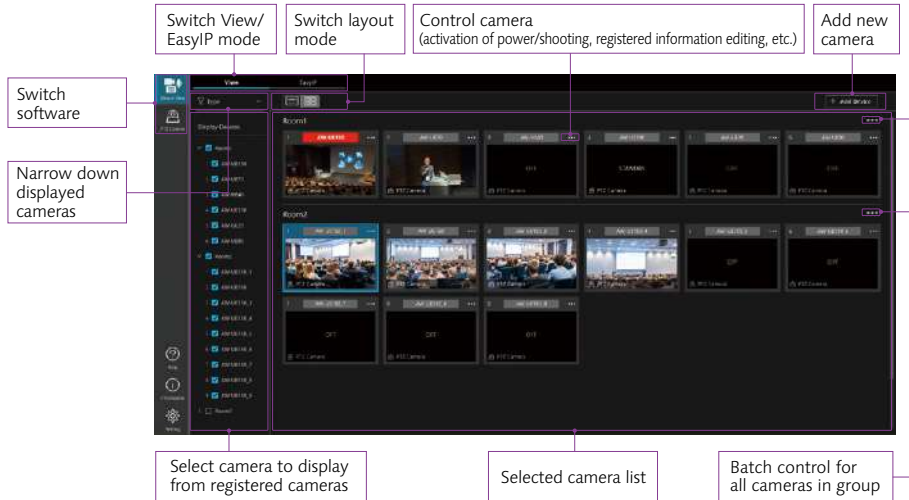https://pro-av.panasonic.net/en/software/mps

Device View

Streamlined camera management and status monitoring over the network.

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1. View Mode | Quickly Confirming Connected Camera Status

Real-time status checks

Lists the status of each connected camera, including power on/off and tally. Thumbnails display each camera's video for quick confirmation of all PTZ camera angles. Use the GUI to activate power, etc., and create groups for selected devices as desired.
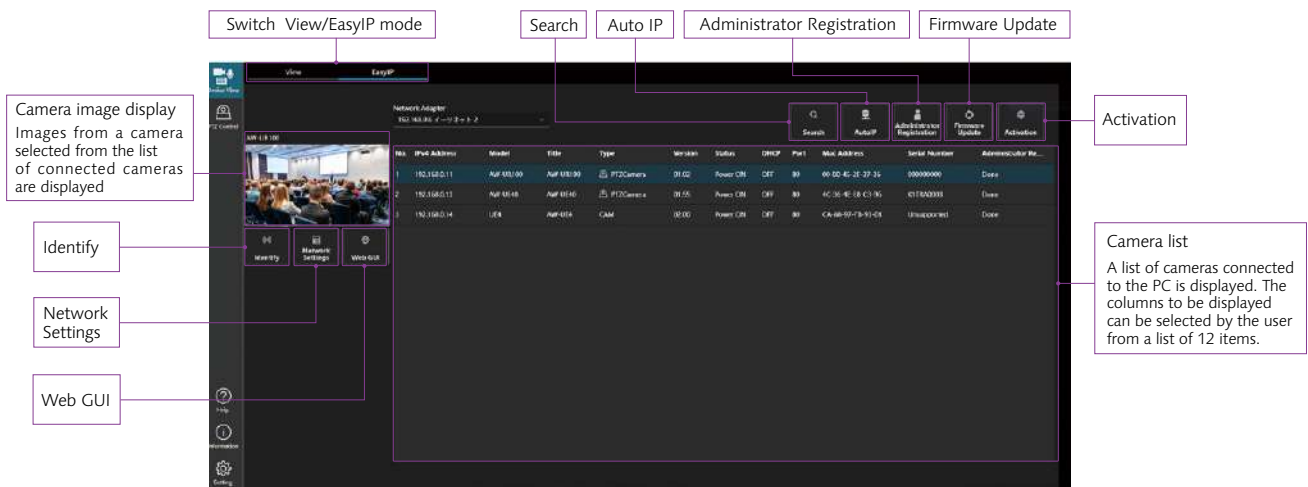
Switch View/EasyIP mode
Switch layout mode
Control camera (activation of power/shooting, registered information editing, etc.)
Add new camera
Switch software
Narrow down displayed cameras

Select camera to display from registered cameras
Selected camera list
Batch control for all cameras in group

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2. EasyIP Mode | Centralized Management of Settings

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, Identify[*1] makes the power indicator of the active cameras flash for quick identification, and Administrator Registration[*2] simultaneously assigns administrator accounts to selected PTZ Cameras.

Functions for streamlining regular management/maintenance operations

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 Update[*3] automates PTZ camera firmware updates without accessing the website. NDI® HX activation, and SMPTE ST 2110 activation in AW-UE160W/K (requires optional paid software key AW-SFU60), are also available.[*3]

Switch View/EasyIP mode
Search
Auto IP
Administrator Registration
Firmware Update
Activation

Camera image display
Images from a camera selected from the list of connected cameras are displayed

Identify
Network Settings
Web GUI

Camera list
A list of cameras connected to the PC is displayed. The columns to be displayed can be selected by the user from a list of 12 items.

*1 AW-UE160W/K, AW-UE150W/K, AW-UE100W/K, AW-UE80W/K, AW-UE50W/K, AW-UE40W/K and AW-UR100.
*2 AW-UE160W/K, AW-UE150W/K, AW-UE100W/K, AW-UE80W/K, AW-UE50W/K, AW-UE40W/K and AW-UR100.
   Administrator account cannot be reconfigured once changed.
*3 PC must be connected to Internet.

Compatible products and system requirements:

https://pro-av.panasonic.net/en/software/mps/dv
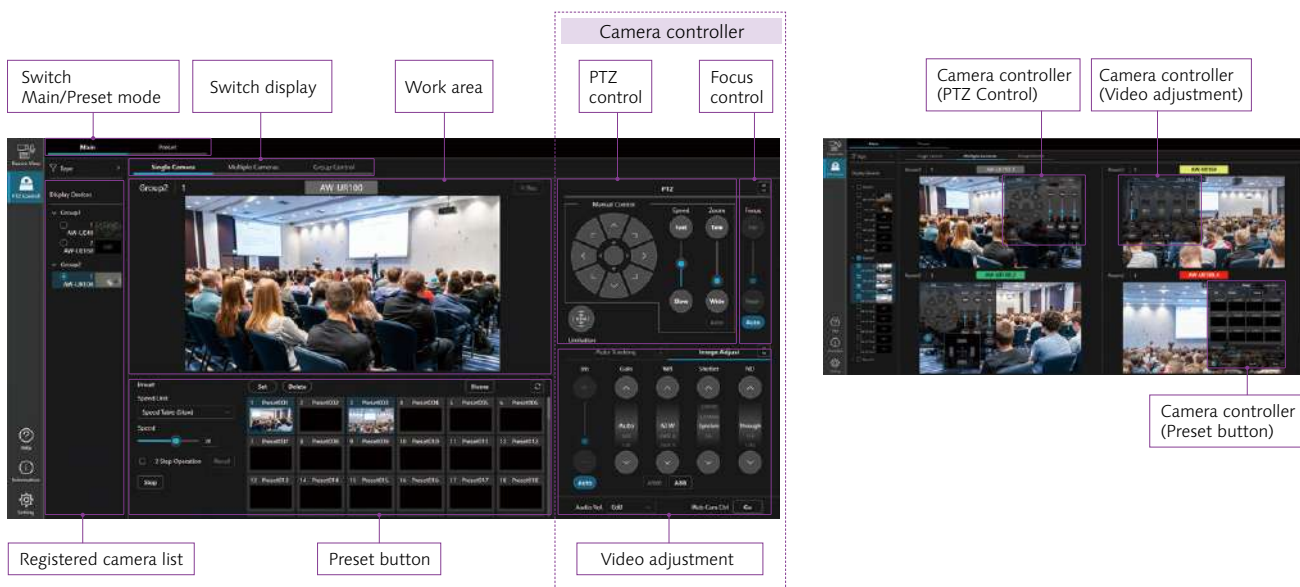
PTZ Control

Centralized control of multiple PTZ cameras for smooth pan/tilt/zoom control and image adjustments via PC monitoring.

1. Main Mode | Intuitive Control PTZ Cameras

GUI for intuitive operation and control

Main mode allows intuitive control of pan, tilt, and zoom controls as well as image adjustments (focus, iris, gain, white balance, shutter, and ND filter) via the PC screen. Display up to 100 presets with thumbnails for quick recall. One to four cameras can be selected and operated individually from a single screen, and up to 16 cameras can be controlled simultaneously in Group Control mode. A macro function that allows users to easily program camera movements to automate video shooting will be added in the future.
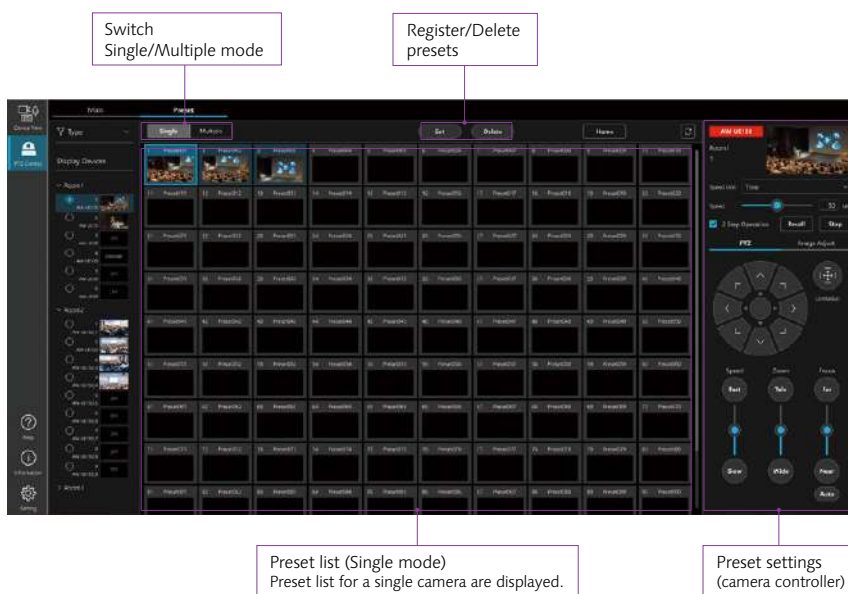

Switch Main/Preset mode · Switch display · Work area · Camera controller · PTZ control · Focus control · Camera controller (PTZ Control) · Camera controller (Video adjustment) · Camera controller (Preset button) · Registered camera list · Preset button · Video adjustment

2. Preset Mode | Easy Confirmation and Management

Easy Preset Management

Use the Preset mode to register and modify presets as well as list them in two different modes: Single mode, which displays the presets of a single camera, and Multiple mode, which displays presets for multiple cameras. Preset List colors can be customized for better visibility.

Efficient centralized control and management of multiple cameras

Control multiple cameras simultaneously, including pan/tilt/zoom, preset registration/recall/deletion, focus, and iris.

Switch Single/Multiple mode · Register/Delete presets · Preset list (Single mode) Preset list for a single camera are displayed. · Preset settings (camera controller)

Compatible products and system requirements:

https://pro-av.panasonic.net/en/software/mps/ptzc

Auto Tracking

Facial recognition and human body detection for high-precision tracking, intuitive and flexible shooting.

90-day Free Trial

Auto Tracking Software Key

AW-SF100
(License for one camera)

AW-SF200
(Basic license for multiple cameras)

AW-SF202
(2 additional licenses)

AW-SF203
(3 additional licenses)

1. Facial Recognition and Human Body Detection for Accurate Auto Tracking

Detects registered faces even under challenging conditions

Using software-registered data, the system detects faces in videos for highly accurate auto tracking. Even in large auditoriums or in dimly lit event halls, Panasonic's proprietary library can quickly detect and authenticate small, hard-to-see faces.

Note: Face recognition data is stored only on the local PC and never on an external server on an external network.

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

The camera smoothly moves to a wider home-position view if it loses track of the speaker, and then resume auto tracking once the target is reconfirmed. Quiet, stable images ensure friendly content so viewers can focus with minimal distraction.

Accurate human-body detection even tracks masked faces

Highly accurate human body detection using deep learning technology enables auto tracking of a speaker even if the speaker's face is hidden by a mask. Tracking can be initiated the moment a person is detected in a video, even without registering for facial recognition. Targets occupying a mere 1-2% of the total screen can be detected and tracked, so the camera does not lose track of the them, even if they move around on a stage, crouch down or are partially hidden by a podium or lectern.

2. Easy Installation and Efficient Operation

GUI for intuitive settings

Auto tracking settings are easy with the intuitive GUI, greatly reducing operator burdens.

Notes: Provisions for manual override by an operator are recommended if usage conditions result in a camera making a false detection or failing to detect a target.

Simple, low-cost installation without sensors or other devices

After installing Media Production Suite on a PC, simply connect a PTZ 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.

IP-based software for remote operation

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

3. Multi-camera operation

Centralized management of multiple cameras

Auto tracking can be simultaneously active for up to 8 cameras, all of which can be managed within the same software. By using the multiple cameras tab on the GUI, up to 4 cameras can be monitored and operated on a single screen, reducing operator`s workload and allowing auto tracking to be quickly resumed if a subject is lost.
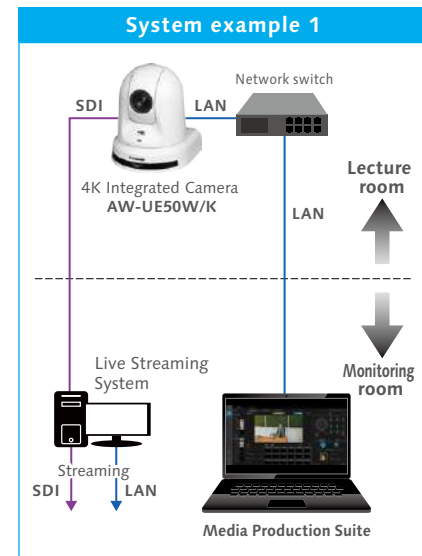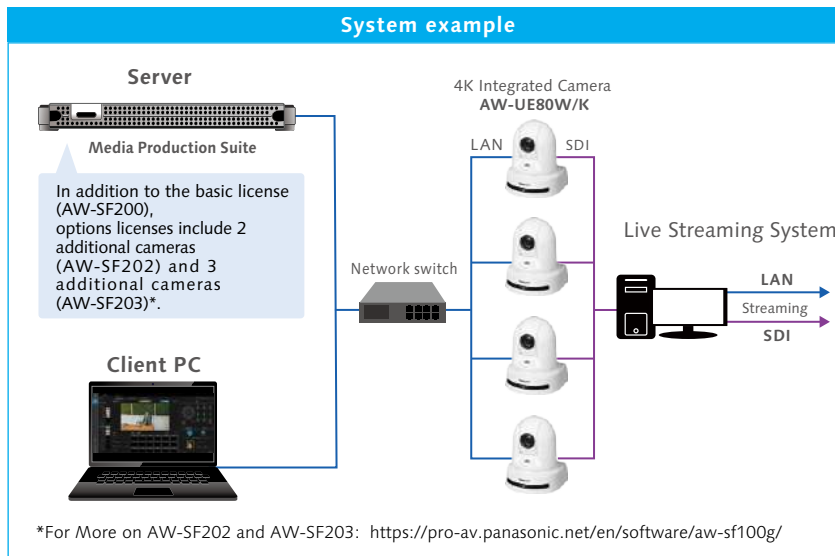
4. Two types of Licenses

Two types of licenses to match system size

The AW-SF100 can be used for controlling one camera while the AW-SF200 enables centralized control of multiple cameras, realizing flexible operations matched to each user's environment.

● **Using AW-SF200 to manage operations at an entire school**

Using a server for simultaneous auto tracking and controlling multiple cameras in a large auditorium and in multiple classrooms.

● **Using AW-SF100 to manage operations at a classroom**

Auto tracking and control of one camera with one PC

System example

Server

Media Production Suite

In addition to the basic license (AW-SF200), options licenses include 2 additional cameras (AW-SF202) and 3 additional cameras (AW-SF203)*.

Client PC

4K Integrated Camera
AW-UE80W/K

LAN   SDI

Network switch

Live Streaming System

LAN
Streaming
SDI

*For More on AW-SF202 and AW-SF203: https://pro-av.panasonic.net/en/software/aw-sf100g/

System example 1

SDI   LAN   Network switch

4K Integrated Camera
AW-UE50W/K

LAN

Lecture room

Monitoring room

Live Streaming System

Streaming
SDI   LAN

Media Production Suite

● **Auto Tracking for Diverse Situations**

Lectures | Presentations | In-house training | Executive speeches

Compatible products and system requirements:

https://pro-av.panasonic.net/en/software/aw-sf100g/

NEW

Advanced Auto Framing

Auto Framing enables professional-quality video production and provides multiple framing presets for highly efficient on-site workflows.

30-day Free Trial*

*Trial version allows control of up to three framing cameras.

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)

Automatic High-quality Framing

*This product is available in limited regions. Please check with your local sales company for availability.
*The AW-UE160's Auto Framing feature supports selected Advanced Auto Framing options, some of which require a camera firmware or Media Production Suite update.

1. Automatic High-quality Video with User-defined Framing

Professional-level Auto Framing

Custom framing realizes professional-level, high-quality auto framing. Advanced human-body detection and camera control ensure stable shooting angles, even with moving subjects, as well as consistent headroom.
Up to 20 framing presets can be registered, including group shots that capture up to 10 subjects in a single frame. In addition, facial recognition with pre-registered facial data can be used to automatically frame specific individuals.

● **High-precision framing presets**

Camera framing is automatically adjusted based on the framing presets.

Preset001

Multiple user-defined framing presets can be registered.

Preset002

Framing area

* The image is for illustrative purposes only.
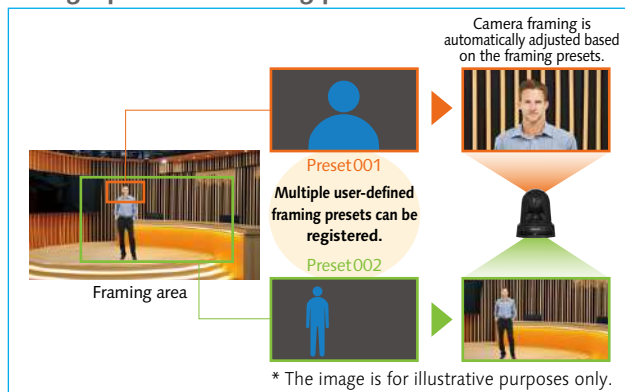
2. Intuitive Operation with User-friendly Control

Control via GUI and Remote Camera Controller

The intuitive GUI, which enables easy setup and operation supporting a touch-panel tablet, can be used in conjunction with Panasonic's AW-RP150 and AW-RP60 Remote Camera Controllers. For fine-tuning the camera angle, seamless switching between automatic and manual framing operations is possible.
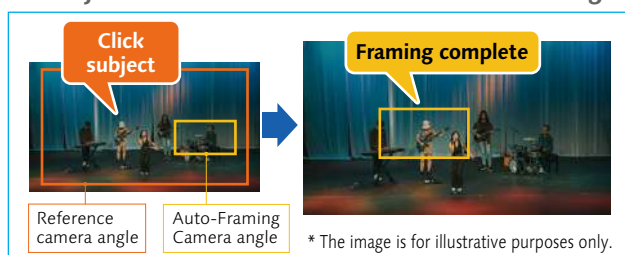
Multi-camera Auto Framing

The GUI's multi-camera display feature provides streamlined views and simultaneous control of multiple PTZ cameras. Multiple camera feeds can be monitored and presets on multiple cameras can be easily switched on a single screen, allowing seamless integration of multi-camera setups, even when on-site staffing is limited.

Note: Software key required to activate multi-camera control functionality

Enhanced Shooting Capabilities with Reference Camera Integration

The system enables seamless integration between an auto-framing camera and a reference camera that captures the entire scene. If the system detects that a subject has moved out of the auto-framing camera's view, it switches to the reference camera feed for framing the subject. In addition, smooth transitions between single-person and group shots ensure complete scene coverage.

● **Subject selection from reference camera footage**

Click subject

Framing complete

Reference camera angle

Auto-Framing Camera angle

* The image is for illustrative purposes only.

Compatible products and system requirements:

https://pro-av.panasonic.net/en/software/mps/aaf/

Visual Preset

GUI screen for switching subject of multiple PTZ Cameras with single click, enabling multi-angle video production with simple operation.

90-day Free Trial

Visual Preset Software Key

AW-SF300

One-click centralized control

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 Call Trigger icon. Intuitive mouse/GUI control is ideal for users unfamiliar with video equipment operation. Also, link a PTZ camera to a Panasonic 1.9 GHz wireless microphone to enable auto switching on anyone speaking into the microphone.*

* US only

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 Call Trigger for the registered camera subjects. Camera positions are displayed as icons and each camera's icon in the active Call Trigger is highlighted, enabling cameras in operation to be confirmed at a glance.

| Switch registered-room information | Photos or diagrams can be used for GUI background screens. | Icon indicating camera positions. Can be placed anywhere on screen. Active Call Trigger cameras highlighted. |

Call Trigger icon recalls presets of associated cameras with one click. Note:Two-step preset recall possible.

Cameras registered to active Call Trigger are listed with their respective preset numbers.

● **Example: Conference room**

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

4K Integrated Camera **AW-UE80W/K**

4K Integrated Camera **AW-UE80W/K**

Network switch

— Cat5e (or later)LAN cable
— SDI
— Audio Line

Display
Video Monitor
Distributor
Recorder ⇒ Broadcasting
Switcher
Encoder → Streaming
Audio System

Media Production Suite + Visual Preset Plug-in (Additional Fee)
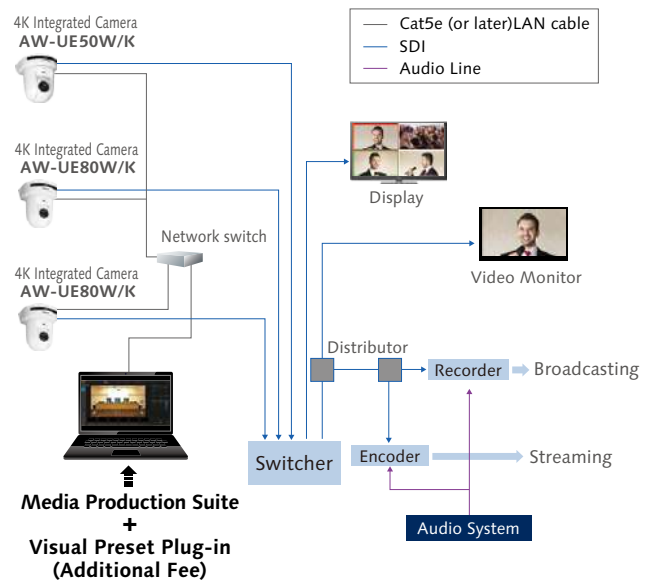
● **Visual Preset applications**

Lectures (Business)   Lectures (Education)
Musical performances   Webinars

Compatible products and system requirements:

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

Video Mixer

AI support for professional video effects and live streaming, and easy composition of various video materials enable an expansion of the range of visual expression.

30-day Free Trial

Video Mixer Software Key
AW-SF400

Video Mixer Plug-in (video):
https://www.youtube.com/watch?v=xwD9kxHITnQ

Simplified video composition

1. Easily Achieve Professional Visual Effects with AI

AI Keying

Traditionally, dedicated equipment such as green backgrounds and lighting were required for chroma keying in which a captured person was composited with virtual background. AI Keying uses automatic image recognition to separate people from backgrounds, making it possible to perform chroma key-like compositions in conference rooms, classrooms and outdoors without any need for dedicated equipment. Using just a single PC, stunning video compositions can be created with surprising ease.

● **Shooting without dedicated equipment**

Conventional chroma key: Requires equipment such as green backdrops and lighting.

AI Keying: Keying possible in conference room or outdoors without dedicated equipment.

AI Effect Filter

Real-time filter processing is achieved through high-precision AI face detection combined with facial recognition. Faces in the frame are automatically detected to apply customized filters for up to 25 individuals.

● **Real-time filter processing**

Mosaic　　**Blur**　　**Image Overlay**

AI Face Crop

AI Face Crop uses AI-powered face detection to recognize and track specific individuals to automatically insert face PinP (Picture-in-Picture) overlays in real time. A single camera can display multiple face PinP overlays simultaneously eliminating the need for multiple cameras.

● **Automated face PinP insertion**

Shooting Frame

Face PinP with AI Face Crop

* The images are for illustrative purposes only.

## 2. Simple, flexible video production

Video compositing and switching with intuitive GUI

Smart Switcher function (four inputs/two outputs) allows multiple composition patterns to be registered, selected and composed with the single click of a mouse. It also supports SDI, SRT and NDI®[1] input/output, making it easy and simple to produce videos from diverse materials. Also, linking a PTZ camera to a Panasonic wireless microphone enables voice-triggered auto switching on anyone speaking into the microphone[2].

[1]: NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries.
[2]: Future support planned.

● **System Example**
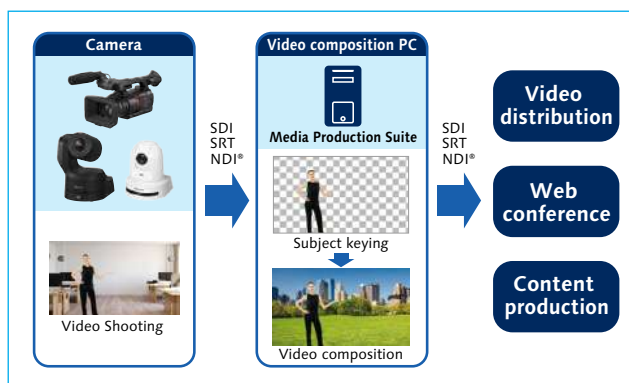
● **Diverse Features for Various Uses**
  ► **Compatible with embedded audio input/output via SDI, NDI® and SRT.**
  ► **External API control via HTTP and TCP.**

Supported products and system requirements:

https://pro-av.panasonic.net/en/software/mps/vm


PTZ Virtual USB Driver

Any Panasonic PTZ camera or professional camera recorder* on a LAN can be recognized and used as a USB camera, and remote cameras can be used as virtual USB cameras.

* 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 Remote Cameras and Professional Camera Recorders lacking a USB port can be recognized as virtual USB cameras via a LAN connection, enabling high-quality video via web-conferencing applications or lecture-capture software.
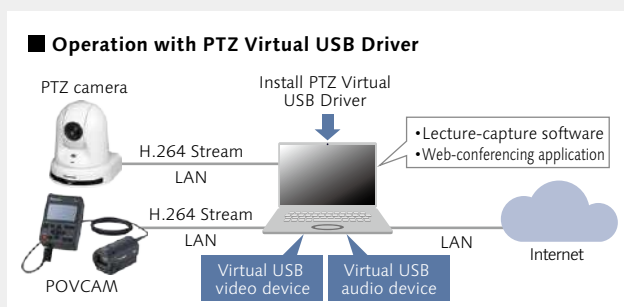
2. PTZ camera as webcam for remote operation without USB connection

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.
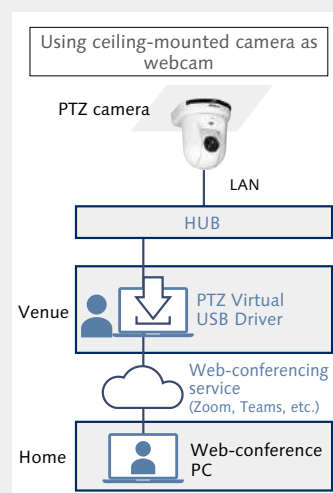
System requirements:

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

To use the plug-ins in the Media Production Suite

After installing the Media Production Suite, paid plug-ins can be activated for features such as Auto Tracking, Advanced Auto Framing, Visual Preset, Video Mixer, and more. Plug-ins that offer a free trial period require a separate software key to be purchased (via a reseller) and activated for continued use.

How to activate plug-ins

1. Install the Media Production Suite.
2. Order a software key from a sales company.
3. A box or an e-mail* containing the software key will be delivered.
4. Follow the instructions in the Media Production Suite Operation Manual to activate the plug-in.

AW-SF100/200/202/203 or AW-SF300 licenses used on the existing software can continue to be used as plug-ins licenses for the Media Production Suite (Some specifications of plug-ins may vary from the existing software).

* The software key can also be purchased in some regions such as the US and EU via electronic software delivery, in which an activation key code can be delivered to your email address provided. Please contact the local sales company for details.

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 Software is installed and will not be stored in any other location.

Panasonic®

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

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