

# AW-UE4

## Wide Angle 4K ePTZ with IP

Firmware Version: [1.23](#)



# This UE4 PowerPoint Covers


- AW-UE4 Overview
- Technical Specs and Comparison to HE2
- Compatibility with Hardware & Software
- Applications
- Configuration Guide



## Important New Firmware Update V1.23 now available

- Web interface instability was reported, this has now been fixed
- Brand new AW-UE4 units now activates to "ON" when the first receive power. Previous version required a remote control or web interface to activate

### AW-UE4 series Software Updates

Software Version	Software Download	Size	Installation Procedure	Release Note	Last Update
AW-UE4 W/K G/GN/MC Ver.1.23	<a href="#">Download</a> 	21.9MB			Mar. 10, 2020

 [Click here to download Operating Instruction](#)

[Click here to for Instructions and Download](#)

# Panasonic "AW" Remote Systems Product Overview 2020

**Panasonic** BUSINESS

Panasonic remote cameras (often referred as PTZ cameras) have a wide variety of model numbers and can be installed into a range of applications, from indoor to outdoor for any type of event

Each have their own special specialisations in specs, which we will segment to identify what we need

4K  
PROFESSIONAL

NEW



AW-UE4

1080p  
FULLHD



AW-HE38

AW-HN38

HDV  
HDV 1080i  
HDV 720p



AW-HE40S/H

AW-HN40H

1080p  
FULLHD



AW-HE42

4K  
PROFESSIONAL



AW-UE70

AW-UN70

1080p  
FULLHD



AW-HE130

AW-HN130

4K  
PROFESSIONAL  
HDR



AW-UE150

1080p  
FULLHD



AW-HR140



AW-RM50

NEW



AW-RP60



AW-RP150



AV-HLC100



PTZ Control Centre  
Software (Free)



Auto Tracking  
Software

# Panasonic Remote Camera Line-up for 2019: Models

Here we have the latest line-up of PTZ's from Panasonic ranging from entry level to specialised applications for 2019. It is a complete range from HD to 4K

Here are some typical install examples, but PTZ's can be crossed over into multiple applications

## Education | Corporate | House of Worship

New:  
Autumn 2019



AW-UE4



AW-HE38  
AW-HN38



AW-HE40S/H  
AW-HN40H

## Rental | Broadcast | E-Sports

New:  
Summer 2019



AW-HE42



AW-UE70  
AW-UN70

## Theatre | Studio | Parliament

New:  
January 2019



AW-HE130  
AW-HN130



AW-UE150

## Outdoor



AW-HR140

Entry Level

Mid Range

Specialised Level



**Panasonic** BUSINESS

## What is the AW-UE4?

The UE4 is a brand new wide-angle 4K ePTZ with IP capability from Panasonic.

This product is the successor to the popular AW-HE2. Based on market feedback, the UE4 features a wider lens, a 4K sensor, electronic "e" pan and scan control, as well as RTMP for live streaming.

The UE4 has been designed to fit a wide array of applications, from classrooms to small streaming studios – making it a great addition to Panasonic's professional PTZ line-up in 2020

Panasonic BUSINESS

# Technical Specs & Compatibility



# AW-UE4 | Wide Angle 4K ePTZ with IP

**Panasonic** BUSINESS



**AW-UE4K**



**AW-UE4W**



## MAIN FEATURES



- ⑩ 4K at 30p Output & Equipped with Microphone
- ⑩ Ultra-Wide Angle at 111 Degrees
- ⑩ HDMI, USB-C, RTMP & PoE
- ⑩ x4 Digital Zoom with Pan & Scan Functionality
- ⑩ X2 Internal Microphone for Audio Capture

## TARGET MARKET / APPLICATION

- ⑩ Corporate, Education
- ⑩ House of Worship
- ⑩ Point of View Position
- ⑩ Live Event Streaming

**Available Now**

## OTHER FEATURES

- 1/2.5-inch MOS 8M pixels
- Supported Video Formats: **(4K) 2160p, 1080p, 720p**
- Supports PoE and Power via USB-C
- Supports IP Formats: **M-JPEG, H.264/H.265(RTSP/RTMP)**
- 100 Preset Positions
- Infrared Control



Out of the Box



# Accessories & Mount

## Out of the Box

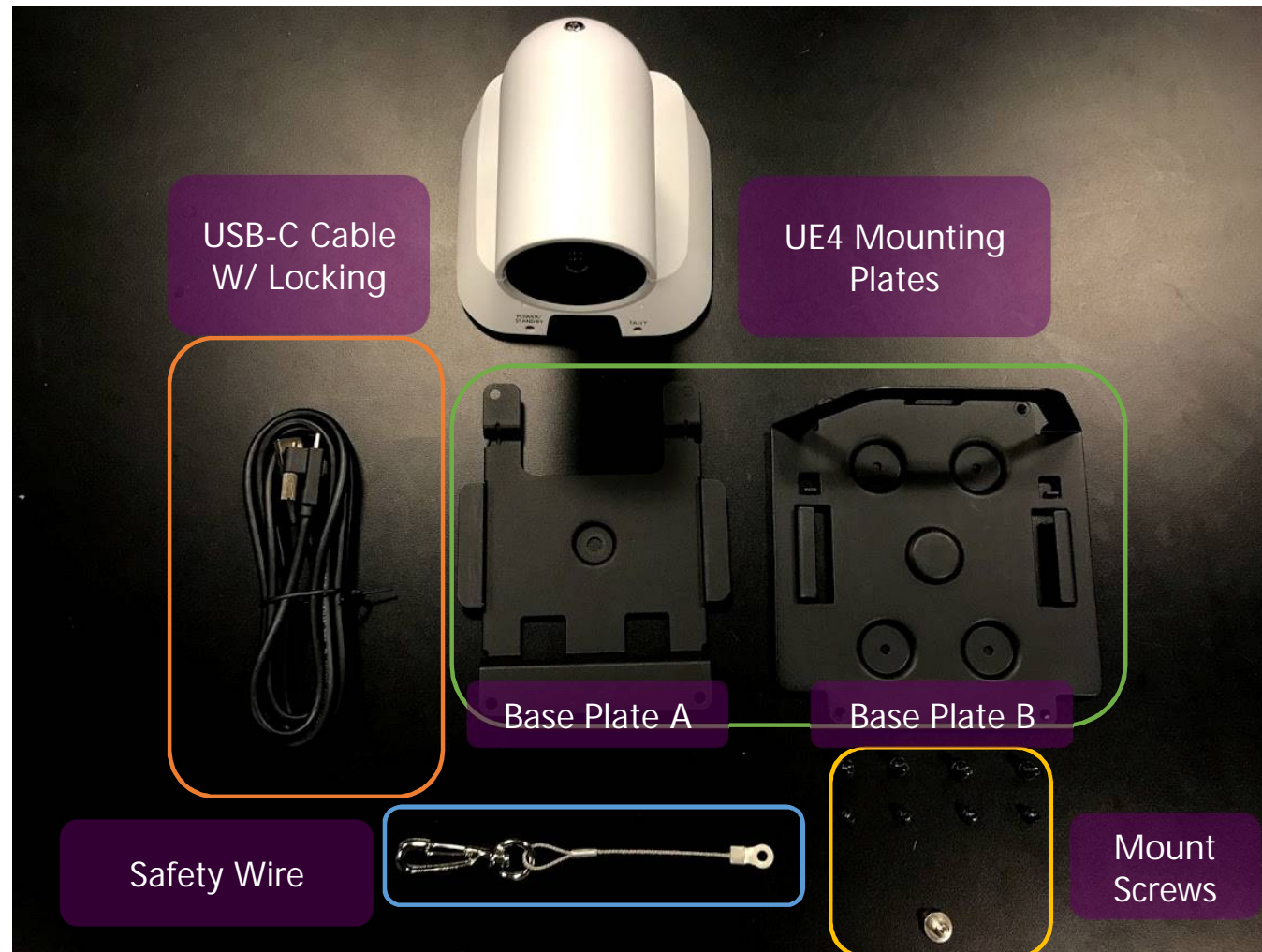
- Out of the box we have our essential items to begin using the UE4
- It is important to note that the following is not included:

AW-RM50 Controller

USB Plug

- Can be powered via PC USB or PoE

Wall Mount



# An AW-RM50 Remote is Highly Recommended

## Ease of Install

- The AW-RM50 PTZ remote controller is a separate accessory available from Panasonic to control all Panasonic PTZ's
- This IR remote can trigger up to nine presets and also control up to 4 separate PTZ's in the same room. Multiple PTZ's can be controlled in separate rooms with assigned IR control
- All pan, tilt, zoom, iris and focus functions can also be utilised as well as accessing the On Screen Display quickly



## Important note out of the Box, no USB Power Supply included

A 5V USB plug does not ship as standard out of the box, but it is an option from Panasonic or another 3<sup>rd</sup> party.

The reason for this is to save on manufacturing unnecessary power supplies, as the unit can be powered over ethernet (POE) or for PC applications, your PC's USB 1amp port



- **For Europe:**

Part no:  
VSK0815**K**



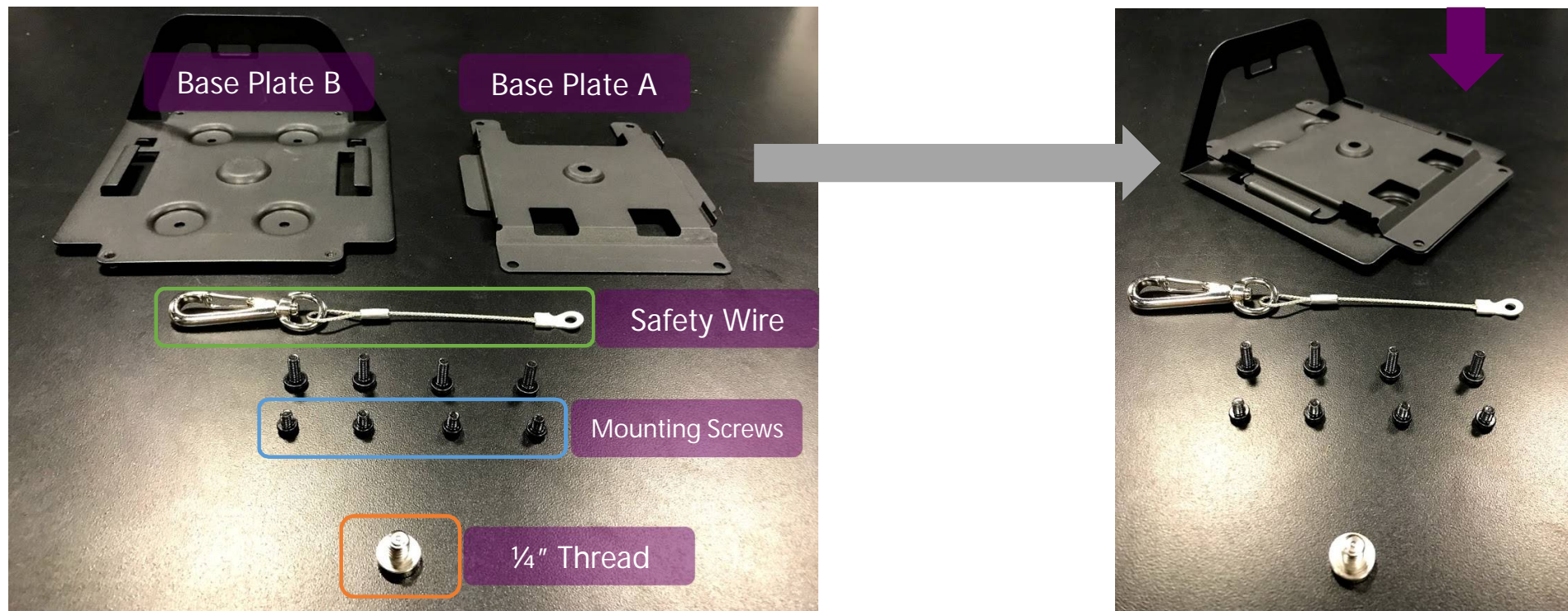
- **For United Kingdom:**

Part no:  
VSK0815**L**

# Accessories & Mount – How to Mount

## Out of the Box

- The new UE4 Mount comes in two parts with Base Plate A connecting with Base Plate B which combine together like this



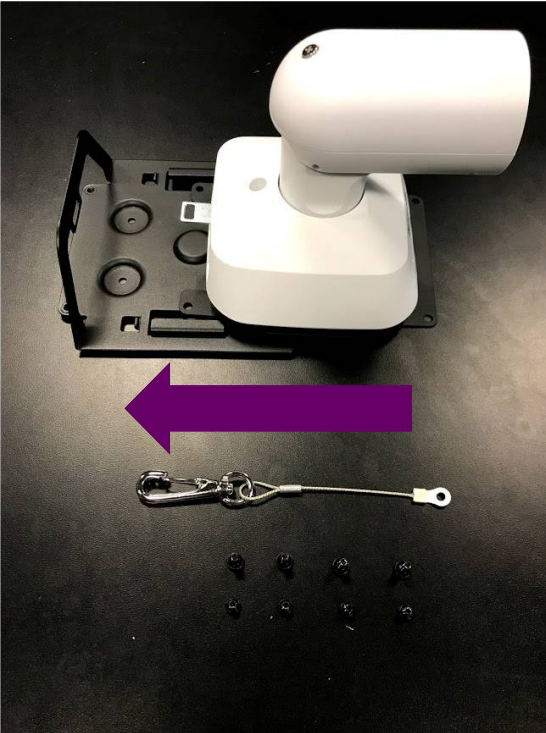
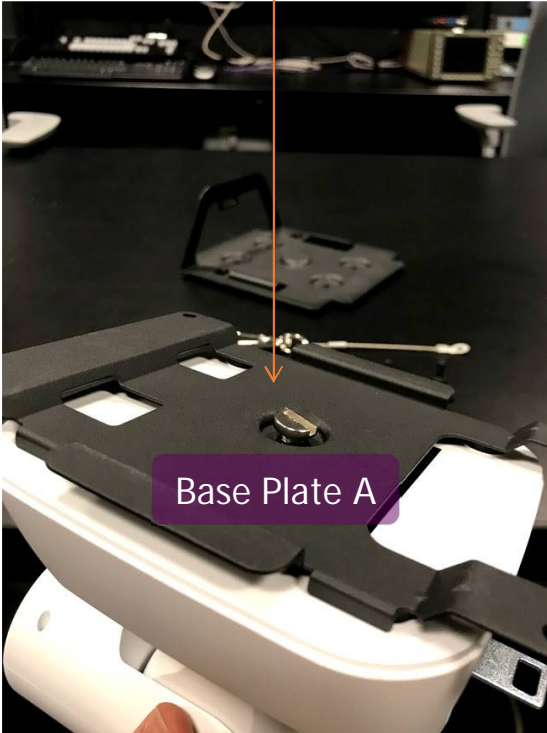
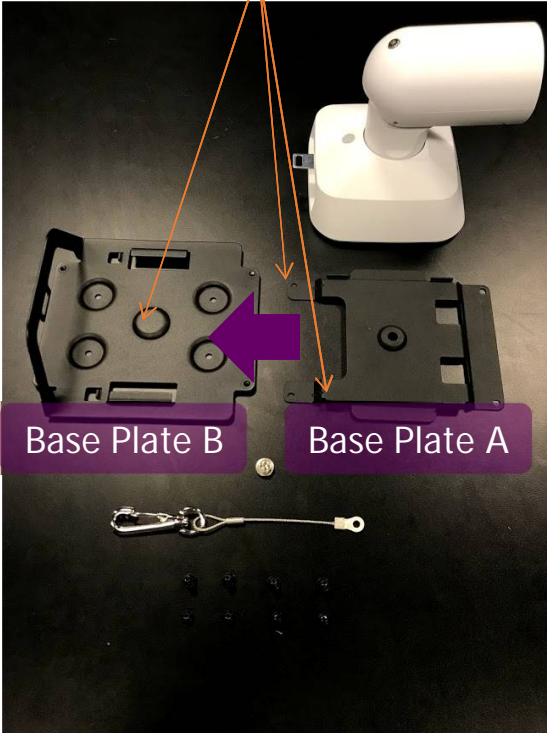
# Accessories & Mount – How to Mount

First install Base Plate B into position (ceiling) with traditional screws. Base plate a locks into Base Plate B

Next take the 1/4" screw and tighten the screw in the UE4 thread with a screwdriver

Base Plate A & B slot together once the UE is mounted

The UE4 can then be attached to the mount with supplied screws and attached to the already installed ceiling plate with safety wire



# AW-UE4 | Wide Angle 4K PTZ with IP



**Panasonic** BUSINESS



Features	AW-HE2	AW-UE4 <span style="background-color: #4a4a8a; color: white; padding: 2px;">Tentative</span>
Body color	Black only	Black and White
Image sensor	1/4.37-inch MOS 3.91M pixels	1/2.5-inch MOS 8M pixels
Lens	F2.0 / f=3.37mm (HFOV 95° )	F2.4 / f=2.21mm (HFOV 111° )
Zoom	iZoom 2x, Digital Zoom 4x	Digital Zoom 4x
Pan & Scan (PTZ)	N/A	Yes
Output video format	1080p, 720p	(4K) 2160p, 1080p, 720p
LAN (Video)	M-JPEG	M-JPEG, H.264/H.265 (RTSP/RTMP)
LAN (Control)	AW Protocol	AW Protocol
LAN (Power)	N/A	PoE
USB (Video)	M-JPEG	MJPEG, H.264
USB (Control)	Absolute	Absolute / Relative
USB (Power)	BUS Power (LAN not-usable)	BUS Power (LAN usable)
Preset	9 Position	100 Position
I.D.	All I/F are located on the camera-head	I/F move to base

# A Wider Field-of-View

AW-HE2



1080/59.94p  
1080/50p



95°

AW-UE4



2160/30p  
2160/29.97p  
2160/25p



111°

# New Pan & Scan ability

95°  
AW-HE2



1080/59.94p  
1080/50p



The HE2 only supported 9 presets and could only be zoomed in

111°  
AW-UE4



2160/30p  
2160/29.97p  
2160/25p



When in 4K 30p mode: the UE4 can crop into HD seamlessly with its x4 digital zoom and **move around the sensor**

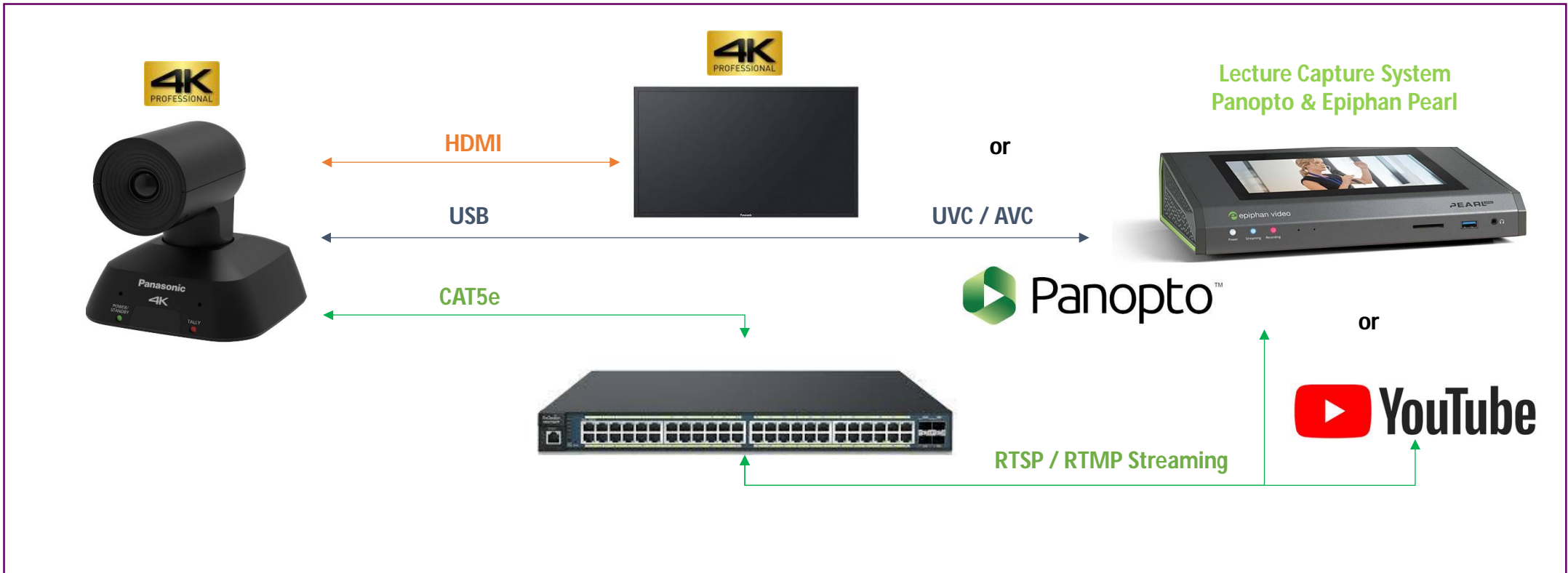
.The UE4 also supports up to **100 presets** as standard

# AW-UE4 - Hardware

## Simplest PTZ to Setup to Date

The UE4 has 3 main modes of output:

HDMI, USB & IP Streaming via CAT5 cabling – making it compatible for many applications. Each mode is a priority mode to select





# AW-UE4 – PC Guide

A new PC Guide from Panasonic is also available and shows how to connecting to conferencing systems such as **Microsoft Teams**, **Zoom** and **Skype**

\*Please note, certification for AW-UE4 is still in process for Video Conferencing Vendors, but can work with the systems today

**Microsoft Teams – Connect AW-UE4 to PC via USB cable** Power Supply or POE switch is not needed. Camera is powered via USB.

The screenshot shows the Microsoft Teams interface. On the left, a 'History' panel contains a numbered instruction: '1. Click on your account icon in the top right corner. Then click on settings.' A red arrow points from this instruction to the account icon in the top right corner of the Teams window. Another red arrow points from the 'Settings' option in the account menu to the 'Settings' application window on the right. In the 'Settings' window, the 'Devices' section is expanded. A red box highlights the 'Microphone' dropdown menu, which is set to 'Microphone (AW-UE4)'. A second red box highlights the 'Camera' dropdown menu, which is set to 'AW-UE4'. Below these settings, a 'Preview' button is visible. A third red arrow points from the 'Camera' dropdown to the 'Preview' button. At the bottom left of the screenshot is the Panasonic logo.

1. Click on your account icon in the top right corner. Then click on settings.

2. Click on Devices and select AW-UE4 from the drop-down menu under the Camera Category.

Make sure the Microphone is set to AW-UE4 as well if needed.

**Panasonic**

## AW-UE4 – Priority Modes

### Priority Mode

Changing the priority mode enables the unit to perform operation for various applications.

- **HDMI(4K):** 4K video is output to an external monitor connected via an HDMI cable.
- **IP(4K):** Enables IP image transmission. IP image transmission of 4K images uses the H.264/H.265 video coding format. This unit cannot display H.264/H.265 format images on the Live screen. To display H.264/H.265 images, use an external device or external software that supports H.264/H.265 images.
- **USB(4K):** Enables the unit to be used as a 4K Web camera. The camera can also be controlled from a personal computer. When the unit is used as a 4K-compatible Web camera, the frame rate will be fixed at 5 fps.
- **Standard:** HD format video is output to an external monitor connected via an HDMI cable. Enables the unit to be used as a Web camera. The camera can also be controlled from a personal computer.
- **IP:** Enables IP image transmission. The IP transmission of H.264/H.265 images is also supported. This unit cannot display H.264/H.265 format images on the Live screen. To display H.264/H.265 images, use an external device or external software that supports H.264/H.265 images.



Important  
 – Certain  
 Power  
 Supplies  
 Affect  
 Outputs and  
 can check  
[here](#)

Functions that can be and functions that cannot be controlled simultaneously.

Power Supply	Priority Mode	Output terminal			
		HDMI	USB	LAN	
				RTSP/RTMP	Web(HTTP)
PoE	HDMI (4K)	[50 Hz] 2160/25p [59.94 Hz] 2160/29.97p [60 Hz] 2160/30p	—	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz, 60 Hz] 720/10 fps, 360/30 fps
	USB (4K)	—	MJPEG: 2160/5 fps	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps
	IP (4K)	—	—	H264 or H.265: [50 Hz] 2160/25 fps, 10 fps, 5 fps [59.94 Hz/60 Hz] 2160/30 fps, 15 fps, 5 fps	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz, 60 Hz] 720/10 fps, 360/30 fps
	Standard	[50 Hz] 1080/50p, 1080/25p, 720/50p [59.94 Hz] 1080/59.94p, 1080/29.97p, 720/59.94p [60 Hz] 1080/60p, 1080/30p, 720/60p	MJPEG: [50 Hz] 1080/25 fps, 10 fps, 5 fps 720/25 fps, 10 fps, 5 fps 360/25 fps, 10 fps, 5 fps [59.94 Hz/60 Hz] 1080/30 fps, 15 fps, 5 fps 720/30 fps, 15 fps, 5 fps 360/30 fps, 15 fps, 5 fps YUV: [50 Hz] 360/10 fps [59.94 Hz/60 Hz] 360/15 fps	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps

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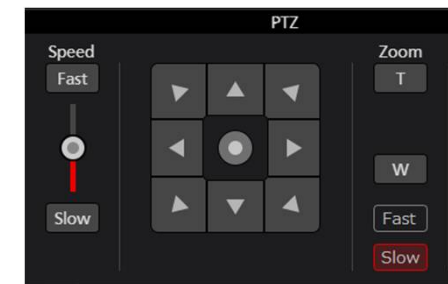
Power Supply	Priority Mode	Output terminal			
		HDMI	USB	LAN	
				RTSP/RTMP	Web(HTTP)
PoE	IP	[50 Hz] 1080/25p [59.94 Hz] 1080/29.97p [60 Hz] 1080/30p	—	H264or H.265: [50 Hz] 1080/50 fps, 25 fps, 10 fps, 5 fps 720/50 fps, 25 fps, 10 fps, 5 fps 360/50 fps, 25 fps, 10 fps, 5 fps [59.94 Hz/60 Hz] 1080/60 fps, 30 fps, 15 fps, 5 fps 720/60 fps, 30 fps, 15 fps, 5 fps 360/60 fps, 30 fps, 15 fps, 5 fps	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps
USB (PC Power)	USB (4K)	—	MJPEG: 2160/5 fps	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps
	Standard	—	MJPEG: [50Hz] 1080/25 fps, 10 fps, 5 fps 720/25 fps, 10 fps, 5 fps 360/25 fps, 10 fps, 5 fps [59.94 Hz/60 Hz] 1080/30 fps, 15 fps, 5 fps, 720/30 fps, 15 fps, 5 fps 360/30 fps, 15 fps, 5 fps YUV: [50 Hz] 360/10 fps [59.94 Hz/60 Hz] 360/15 fps	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps
USB (AC adapter) 5 V/1 A or more	HDMI (4K)	[50 Hz] 2160/25p [59.94 Hz] 2160/29.97p [60 Hz] 2160/30p	—	—	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps
	IP(4K)	—	—	H264 or H.265: [50 Hz] 2160/25 fps, 10 fps, 5 fps [59.9 Hz/60 Hz] 2160/30 fps, 15 fps, 5 fps	MJPEG : [50 Hz] 720/10 fps, 360/25 fps [59.94 Hz/60 Hz] 720/10 fps, 360/30 fps

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Power Supply	Priority Mode	Output terminal			
		HDMI	USB	LAN	
				RTSP/RTMP	Web(HTTP)
USB (AC adapter) 5 V/1 A or more	IP	[50Hz] 1080/25p [59.94Hz] 1080/29.97p [60Hz] 1080/30p	—	<b>H264 or H.265:</b> [50Hz] 1080/50 fps, 25 fps, 10 fps, 5 fps 720/50 fps, 25 fps, 10 fps, 5 fps 360/50 fps, 25 fps, 10 fps, 5 fps [59.94Hz/60Hz] 1080/60 fps, 30 fps, 15 fps, 5 fps 720/60 fps, 30 fps, 15 fps , 5 fps 360/60 fps, 30 fps, 15 fps, 5 fps	<b>MJPEG :</b> [50Hz] 720/10 fps, 360/25 fps [59.94Hz/60Hz] 720/10 fps, 360/30 fps

## AW-SF100/200 Auto Tracking now Supported

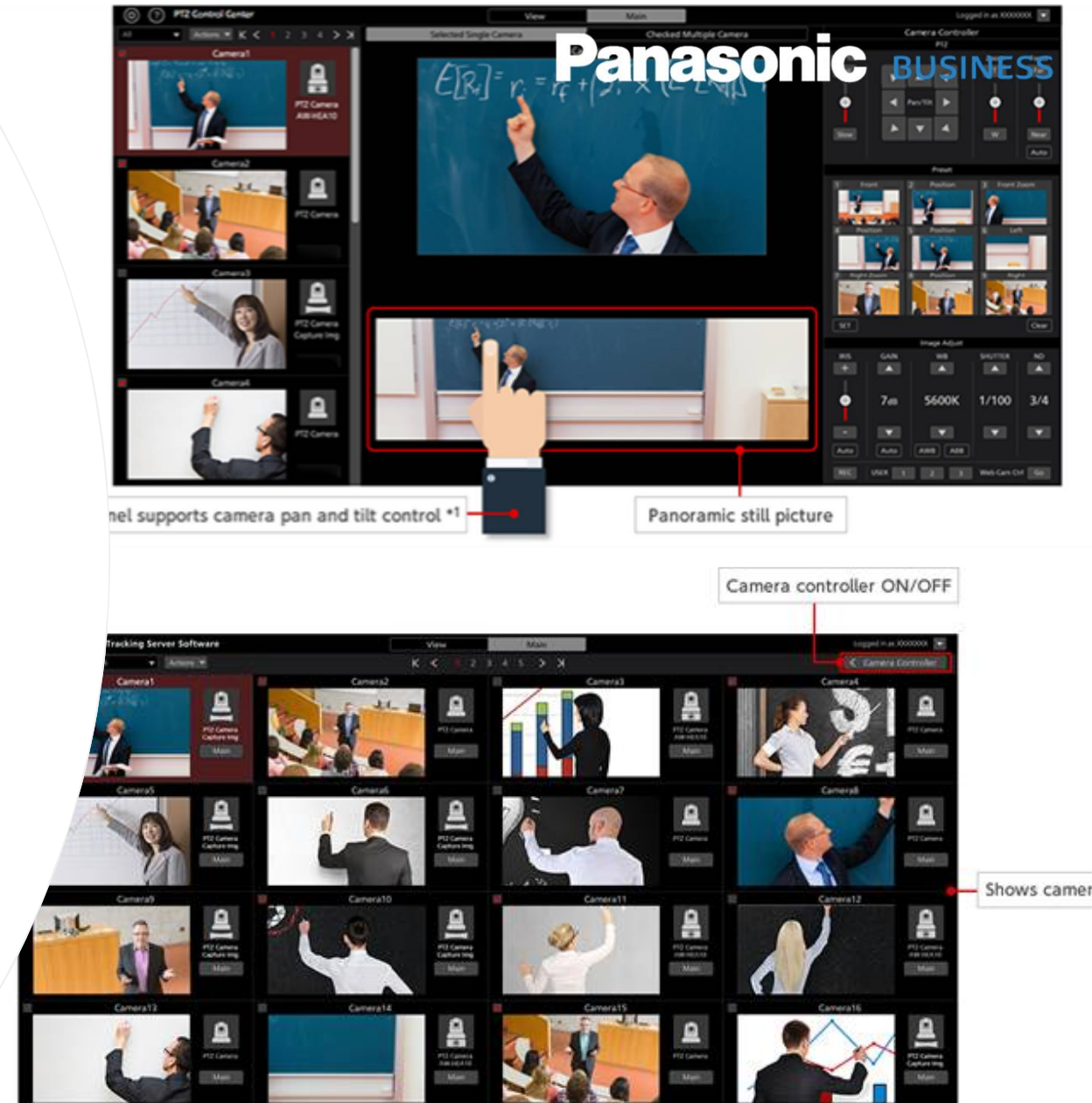
- Auto Tracking uses crop function of the UE4, by zooming in and then tracking
- Designed for small class rooms and spaces
- Auto Tracking can be triggered over a network as it is software based



[Please click here to see the latest explanation on Auto Tracking](#)

# Panasonic PTZ CNTRL Center (In Beta for UE4)

- Free software available on Panasonic PASS ([link](#))
- See all Remote Cameras connected onto the network for easy access (up to 100)
- Full Centralised Remote Camera Control
- Thumbnail preset images appear in the panel to see where shots will go
- [Video Explanation found Here](#)





# AW-UE4 - Hardware

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## Officially

- AW-RM50
- *AW-RP60 (Feb. 2020)*

## Unofficially Supported

- AW-RP150
- AW-RP50

## Not Compatible Hardware

- AK-HRP200
- AK-HRP1000 & AK-HRP1005
- AV-HLC100 (HDMI input only, not NDI|HX)

AW-RM50



AW-RP60



# AW-UE4 - Software

## Compatible Software

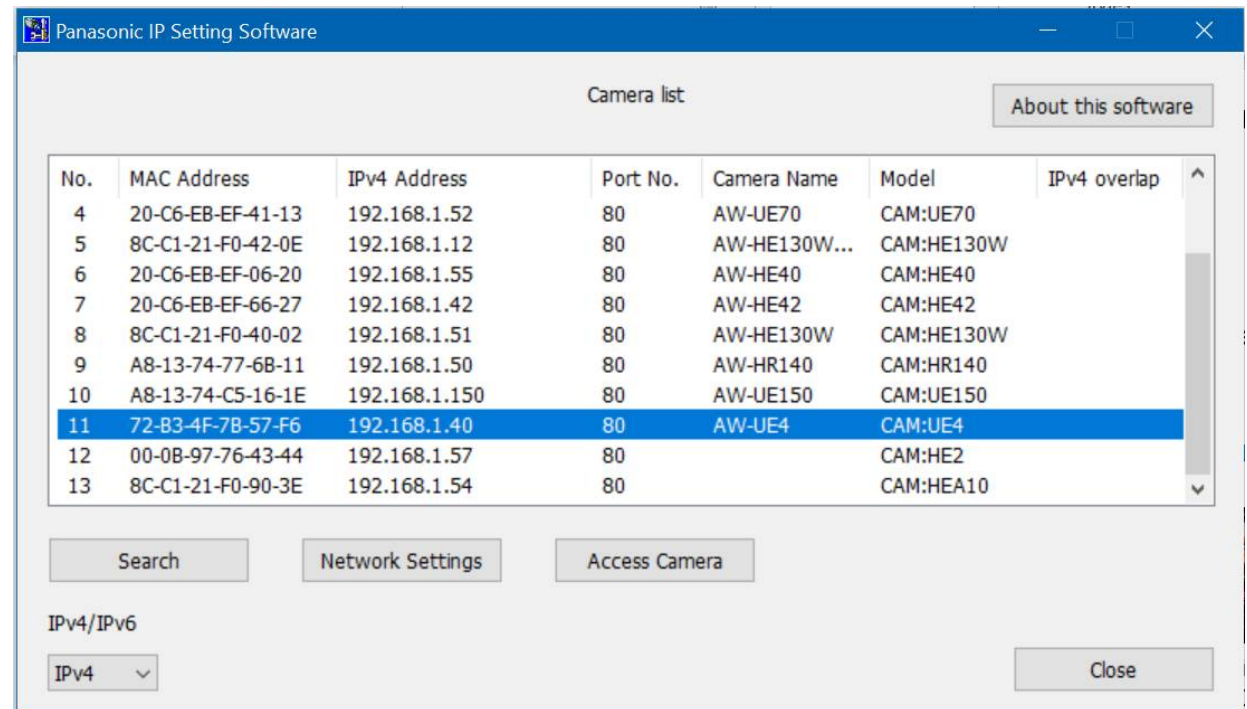
- EasyIP

## Software Under Study

- PTZ Control Centre (Beta)
- Virtual USB

## Not Compatible Software

- AW-SF100
- AW-SF200
- NDI|HX Tools



## Simple how to Guides on YouTube

Panasonic has created 3 videos for the AW-UE4 which includes an Overview (in the box), How to Setup for IP and How to Setup over USB & HDMI

[Click here for UE4 Overview](#)

[Click here for UE4 IP Setup](#)

[Click here for UE4 USB & HDMI Setup](#)



If in doubt, read the manual!

[https://pro-av.panasonic.net/manual/pdf/AW-UE4KG\\_WG\\_Operation\(DVQP2109ZA\)\\_E.pdf](https://pro-av.panasonic.net/manual/pdf/AW-UE4KG_WG_Operation(DVQP2109ZA)_E.pdf)

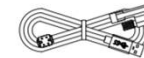
AW-RM50



**Accessories**

Check that the following accessories are present and accounted for.  
After removing the product from its container, dispose of packing materials in an appropriate manner.

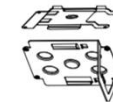
USB Cable



Drop-prevention wire



Mount kit



L-Mount kit

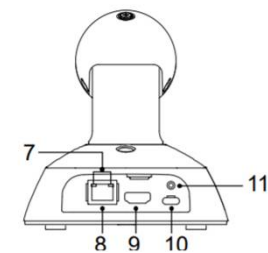
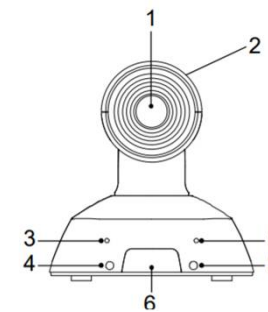
Tripod screw  
(I-head type, 1/4 x 20 UNC)



M4 screw  
10 mm length (4 screws)



M4 screw  
5 mm length(4 screws)



**Panasonic** BUSINESS

FOR EDUCATION  
Lecture Capture



**Panasonic** BUSINESS

FOR CORPORATE AV  
Meetings & Conferencing

**Panasonic** BUSINESS

FOR LIVE STREAMING  
Broadcasting Events



Panasonic BUSINESS

FOR SMALL STUDIO  
Visual Radio & Podcasts



# How to Configure the UE4 RM50 Controller & Web Application

# How to Configure – RM50 Controller Setup

## Hardware: AW-RM50

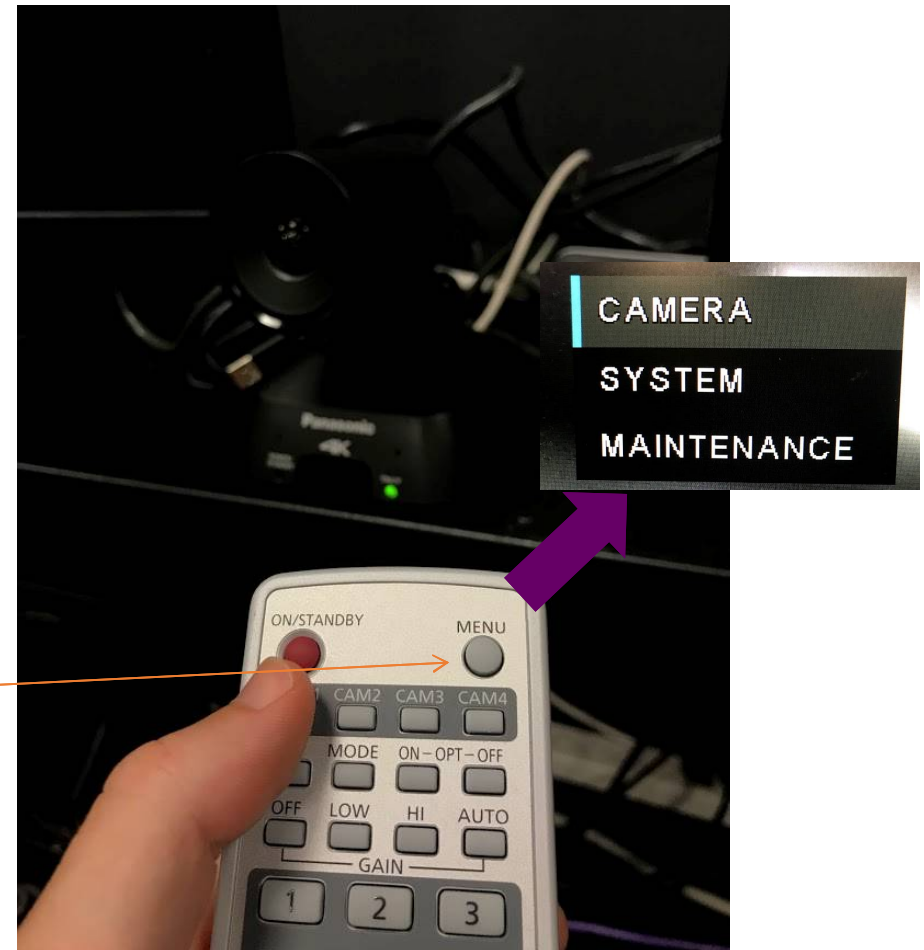
- The RM50 is the fastest way to start using the UE4 and can **control up to 4 PTZ's**. You can configure each PTZ's IR to be mapped to CAM 1 - 4
- The On Screen Display (OSD) **menu** can also be activated easily to adjust system settings. Here you can configure network functions as well.
- Up to 100 presets can be **stored and triggered** on the UE4 & PTZ's
- **Pan, Tilt, Zoom, Focus, Iris as well as speed** can also be easily set. UE4 has a unique Pan & Scan ability



# How to Configure – RM50 Controller Setup

## Accessing the On Screen Display (OSD)

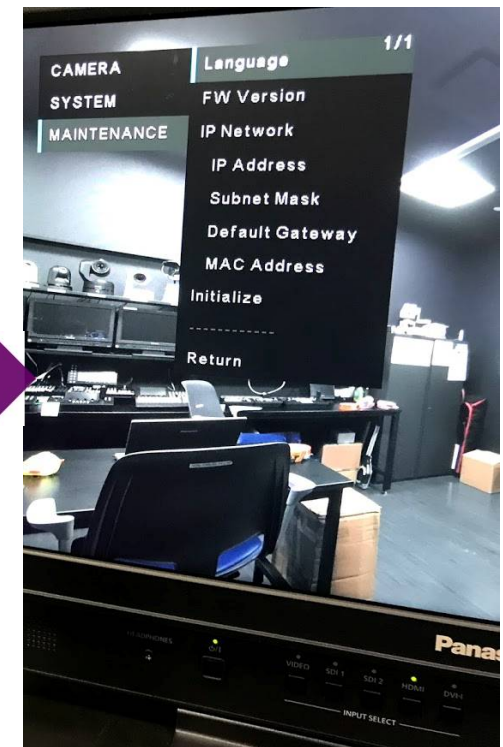
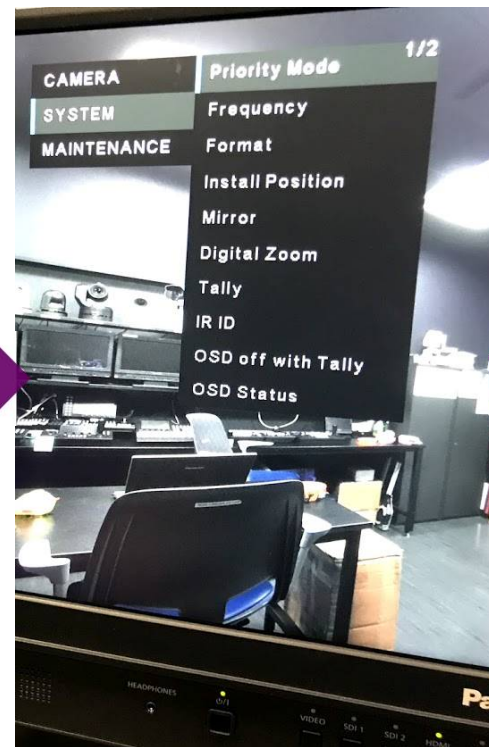
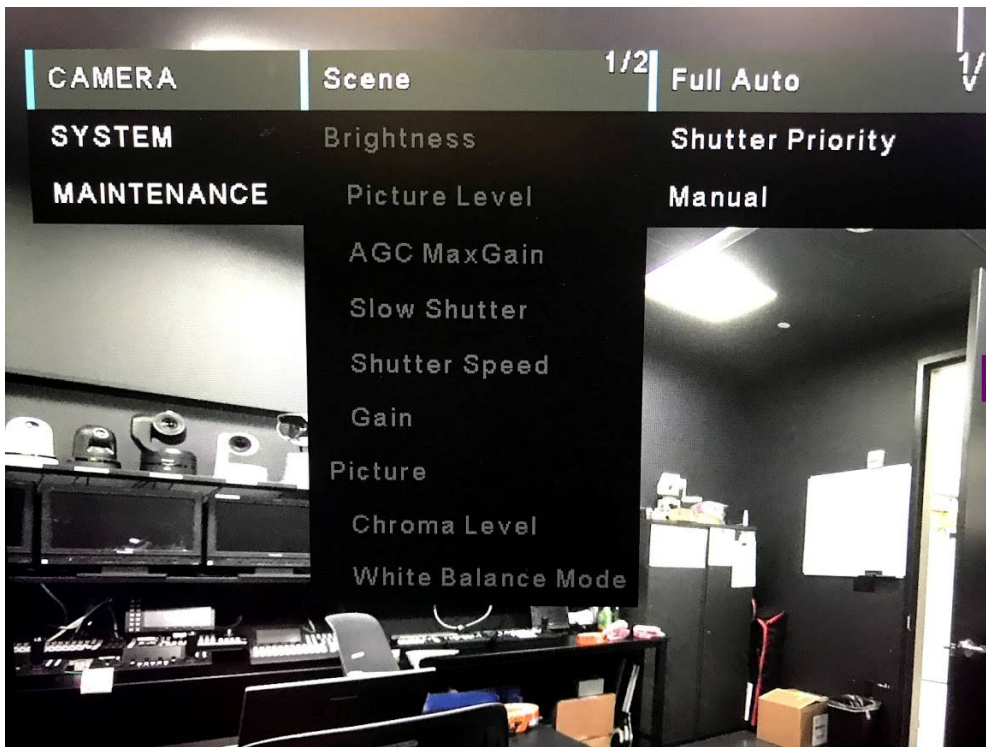
- If you do not have access to a computer, we can use the AW-RM50 remote (sold separately) to access the same menus as the web interface
- To do this the UE4 will need to be connected to a monitor with HDMI or USB output
- To access the On Screen Display (OSD) we need to hold down the "Menu" button for 3 second for the menu to appear on screen



# How to Configure – RM50 Controller Setup

## Accessing the On Screen Display (OSD)

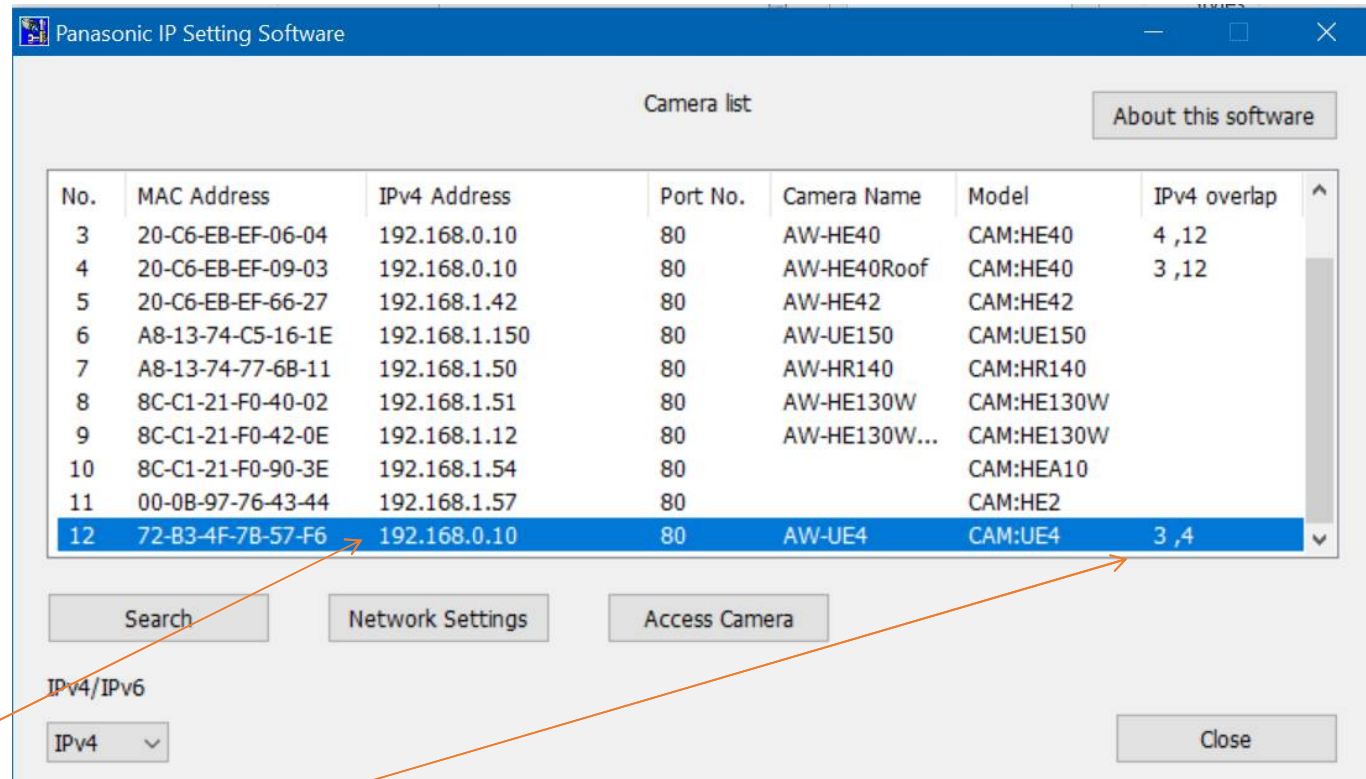
- Inside we can find a wide array of camera settings in: [Camera](#) / [System](#) / [Maintenance](#)



# How to Configure – Web Interface Set-Up

## Software: EasyIP

- EasyIP is a free PTZ IP configuration tool for Windows which can be downloaded from [PASS here](#)
- Make sure your computer is in the same network range on the IPV4 adaptor to see the UE4 on the network (for example, 192.168.0.50)
- The default IP for the UE4 and PTZ's is always :  
192.168.0.10 - make sure to change to avoid IPV4 clashes as it will not be accessible



# How to Configure – Web Interface Setup

## Software: EasyIP

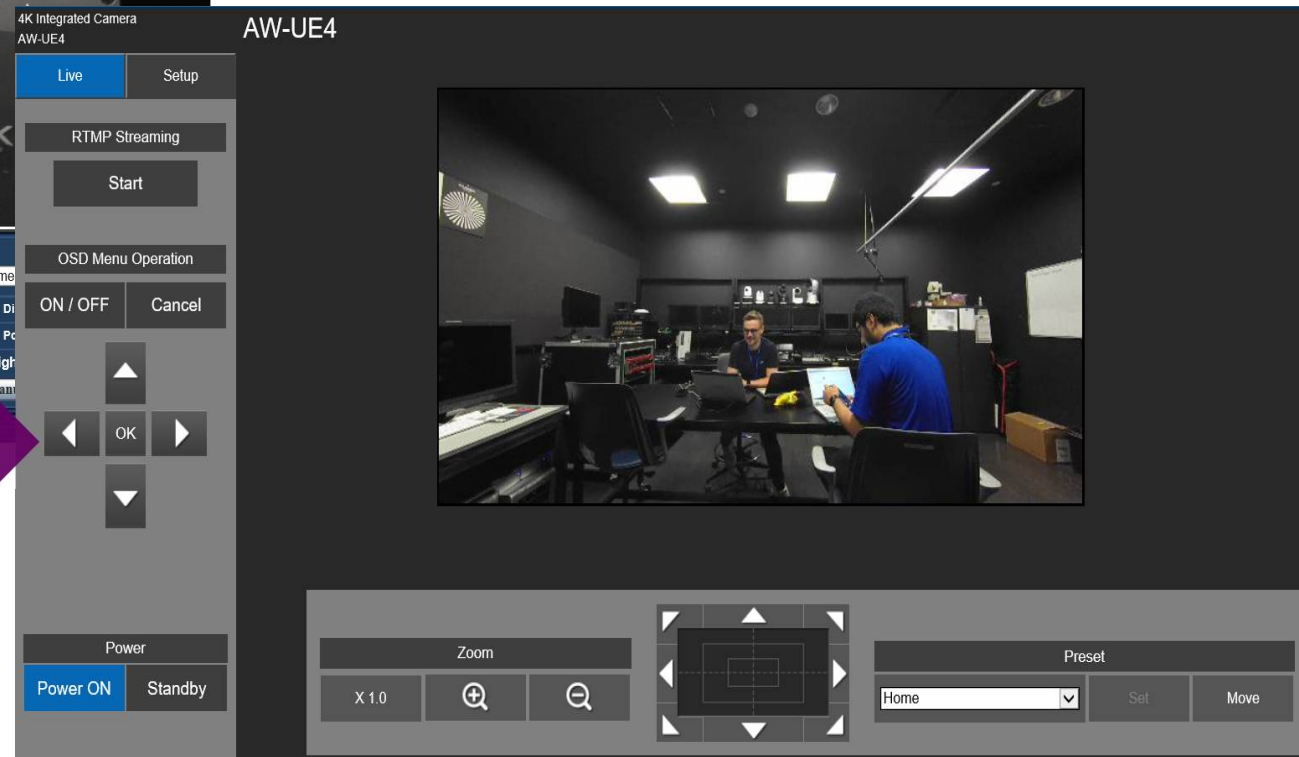
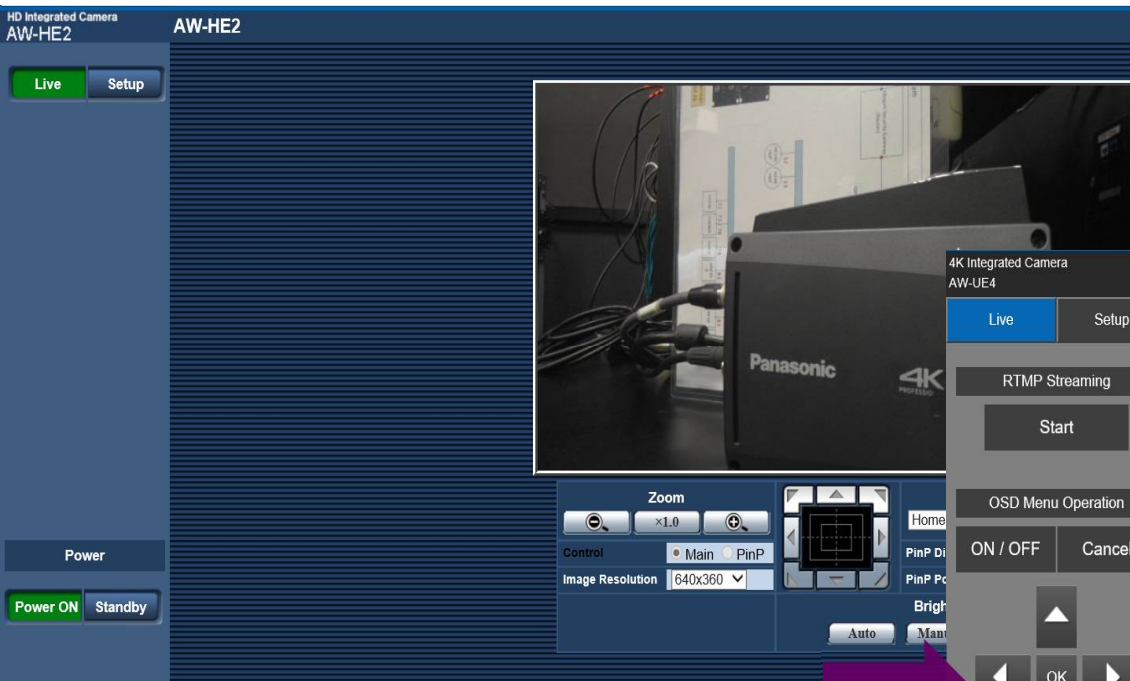
- You can easily access the **network settings** to adjust from the default IP
- You can also select between StaticIP or DHCP settings
- Simply adjust the addresses and default gateway to then begin accessing the UE4
- Once the camera restarts with its new IP, we can **access the camera**

The screenshot displays the Panasonic IP Setting Software interface. It features a 'Camera list' table with columns for No., MAC Address, IPv4 Address, Port No., and Camera Name. Below the table are buttons for 'Search', 'Network Settings', and 'Access Camera'. A dropdown menu for 'IPv4/IPv6' is set to 'IPv4'. An orange arrow points from the 'Access Camera' button to the 'Network Settings' dialog box. The dialog box shows 'Network Settings' with 'StaticIP' selected, 'Port No.' set to 80, 'IPv4 Address' set to 192.168.1.40, 'Subnet Mask' set to 255.255.255.0, and 'Default Gateway' set to 192.168.1.1. The 'DNS' section has 'Manual' selected, with both 'Primary DNS' and 'Secondary DNS' set to 0.0.0.0. A checkbox for 'Wait for camera restarting.' is checked. 'Save' and 'Back' buttons are at the bottom.

No.	MAC Address	IPv4 Address	Port No.	Camera Name
3	20-C6-EB-EF-06-04	192.168.1.53	80	AW-HE40
4	20-C6-EB-EF-09-03	192.168.1.13	80	AW-HE40Roof
5	20-C6-EB-EF-66-27	192.168.1.42	80	AW-HE42
6	A8-13-74-C5-16-1E	192.168.1.150	80	AW-UE150
7	A8-13-74-77-6B-11	192.168.1.50	80	AW-HR140
8	8C-C1-21-F0-40-02	192.168.1.51	80	AW-HE130W
9	8C-C1-21-F0-42-0E	192.168.1.12	80	AW-HE130W...
10	8C-C1-21-F0-90-3E	192.168.1.54	80	
11	00-0B-97-76-43-44	192.168.1.57	80	
12	72-B3-4F-7B-57-F6	192.168.1.40	80	AW-UE4

# How to Configure – Web Interface Setup

The UE4 has a brand new and updated interface from the HE2



# How to Configure – Web Interface Setup

The screenshot displays the web interface for the Panasonic AW-UE4 camera. The interface is divided into several sections:

- Top Left:** "4K Integrated Camera AW-UE4" and "AW-UE4" model name.
- Top Bar:** "Live" and "Setup" tabs.
- Left Panel:** "RTMP Streaming" with a "Start" button; "OSD Menu Operation" with "ON / OFF" and "Cancel" buttons; a directional pad with "OK" in the center; and "Power" with "Power ON" and "Standby" buttons.
- Center:** A large live video feed showing two people working at a desk in a control room.
- Bottom Panel:** "Zoom" controls with "X 1.0", a plus sign, and a minus sign; a central directional pad for pan and scan; and "Preset" controls with a dropdown menu (set to "Home"), "Set", and "Move" buttons.

Five purple callout boxes provide additional information:

- Top Left:** "New RTMP Mode for live streaming can be quickly activated"
- Top Right:** "Our live page gives us real time video output"
- Middle Left:** "On Screen Display can be easily activated"
- Bottom Left:** "x4 Digital can be triggered here"
- Bottom Center:** "Pan & Scan functions can easily be accessible"
- Bottom Right:** "100 Preset positions are easily recallable"

# How to Configure – Web Interface Setup

## Username & Password

- When accessing the setup menu, we need to enter the User name and Password which is default:

**admin**  
**12345**



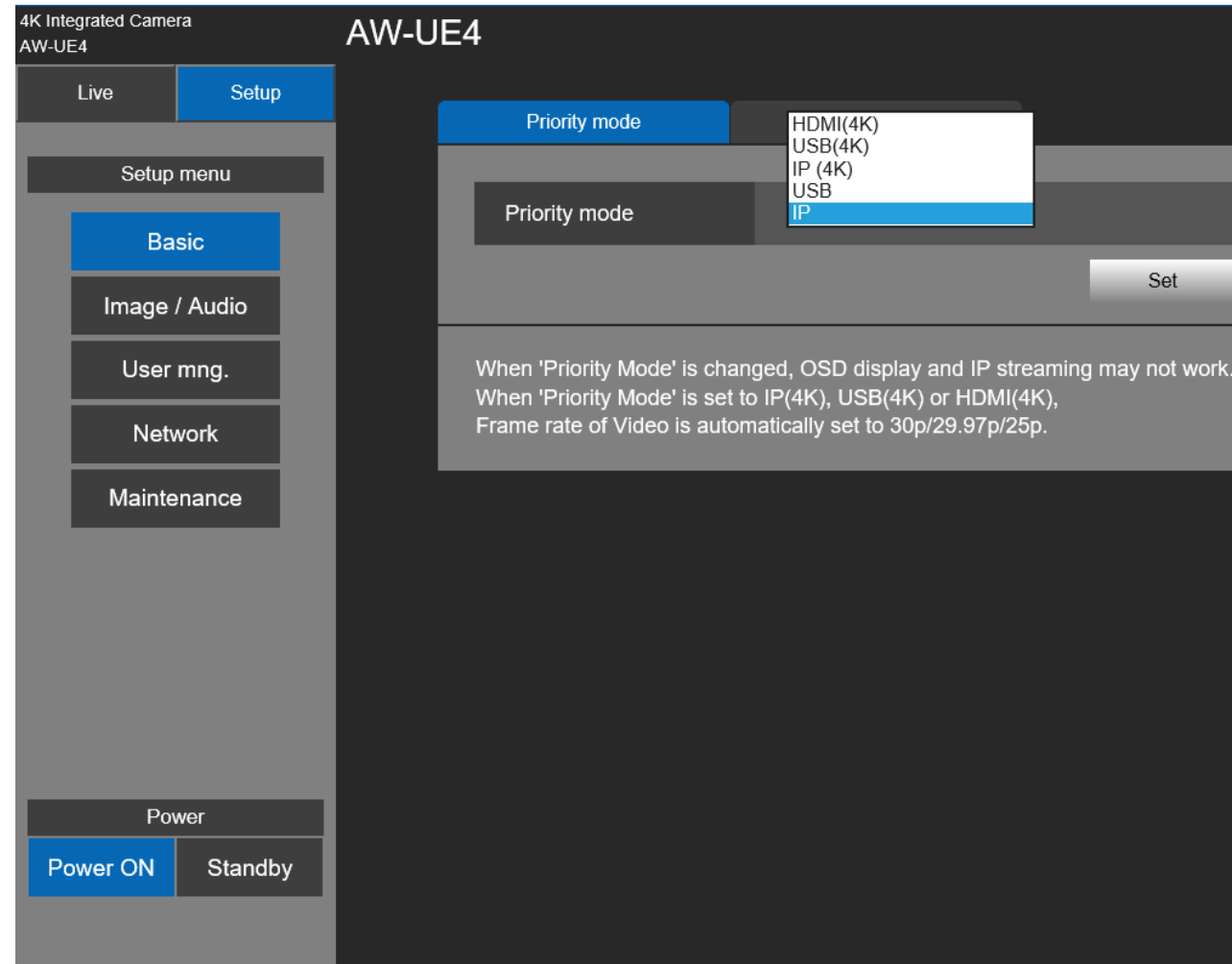
- This can be changed in the user manager settings for added security

The screenshot shows the Panasonic AW-UE4 web interface. The top navigation bar includes 'Live' and 'Setup' buttons. Below it, a 'Setup menu' is visible. The main content area shows 'Priority mode' and 'Live page' tabs. A 'Priority mode' dropdown menu is set to 'IP'. A 'Set' button is located at the bottom right. A Windows Security dialog box is overlaid on the screen, titled 'Windows Security' and 'iexplore'. The dialog box contains the following text: 'The server 192.168.1.40 is asking for your username and password. The server reports that it is from require password.' Below this text are two input fields: the first contains 'admin' and the second contains a masked password '12345'. There is a checked checkbox for 'Remember my credentials' and 'OK' and 'Cancel' buttons at the bottom.

# How to Configure – Web Interface Setup

## Priority Mode

- The setup menu contains all of our essential functions for the UE4 which can be customised
- The priority mode for the camera can be set here and is defaulted for IP streaming
- HDMI 4K = 4K Output @ 30p  
USB 4K = 4K USB Output @ 30p  
IP 4K = IP Streaming @ 30p  
USB = Full HD Output @ up to 60p  
IP =IP Streaming @ up to 60p



# How to Configure – Web Interface Setup

## Camera Name

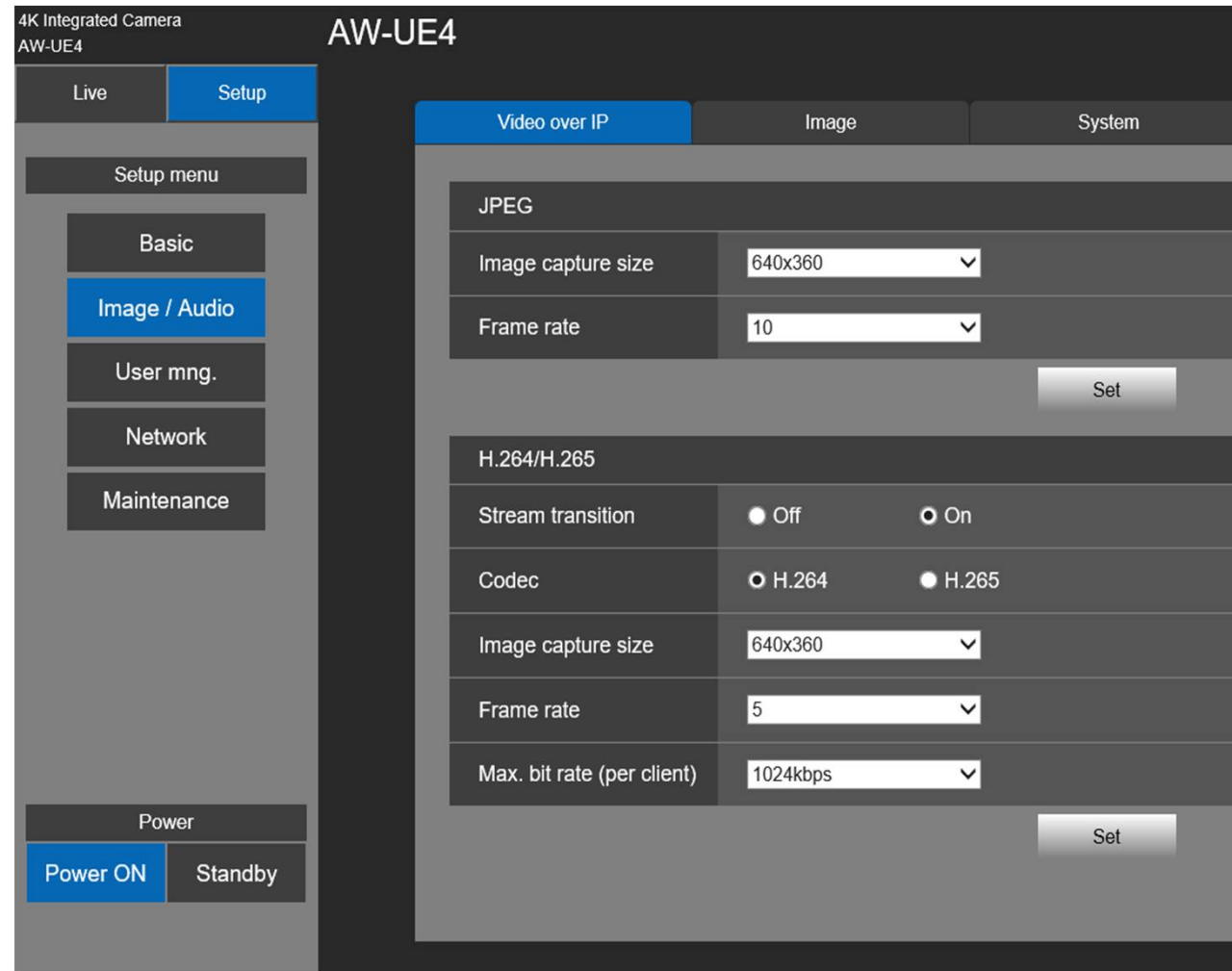
- The camera title can also be changed here under the live page which is very useful for when installing multiple UE4's and PTZ's

The image displays two overlapping screenshots of the Panasonic AW-UE4 web interface. The top screenshot shows the 'Setup' page with a 'Setup menu' containing 'Basic', 'Image / Audio', and 'User mng.' options. The bottom screenshot shows the 'Live page' with a 'Camera Title' field containing 'Stage Stream Cam' and a 'Set' button. A purple arrow points from the 'Basic' option in the top screenshot to the 'Live page' in the bottom screenshot, indicating the navigation path.

# How to Configure – Web Interface Setup

## Image / Audio – Video over IP

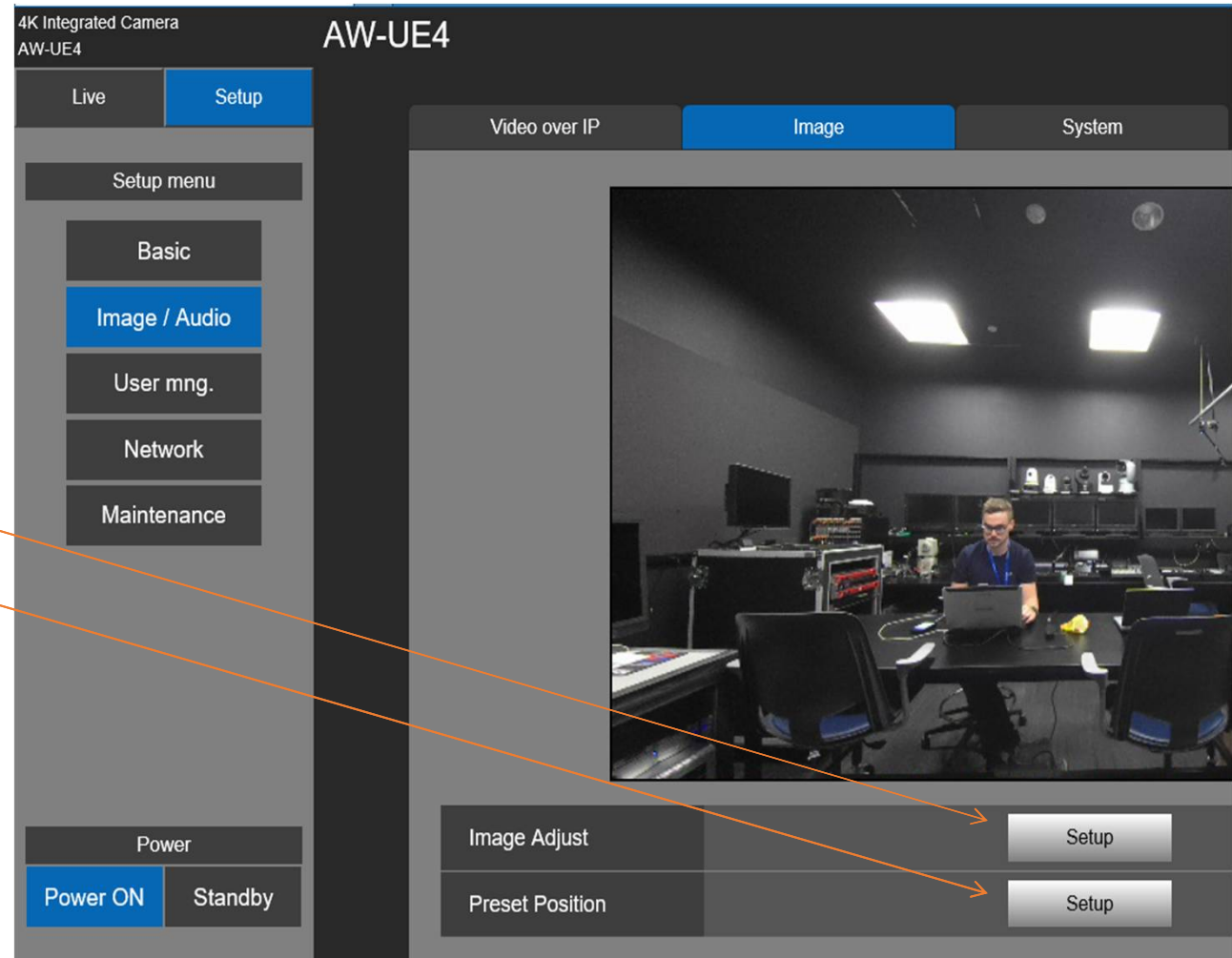
- This menu allows us to edit the streaming bit rates on the UE4
- There are two options we can edit:
  - JPEG = this is the Live Page feed
  - H.264/265 = this is our IP output quality
- JPEG stream is always active for monitoring and the IP streams can be customised for HD (H.264) or 4K (H.265)



# How to Configure – Web Interface Setup

## Image / Audio - Preset & Image

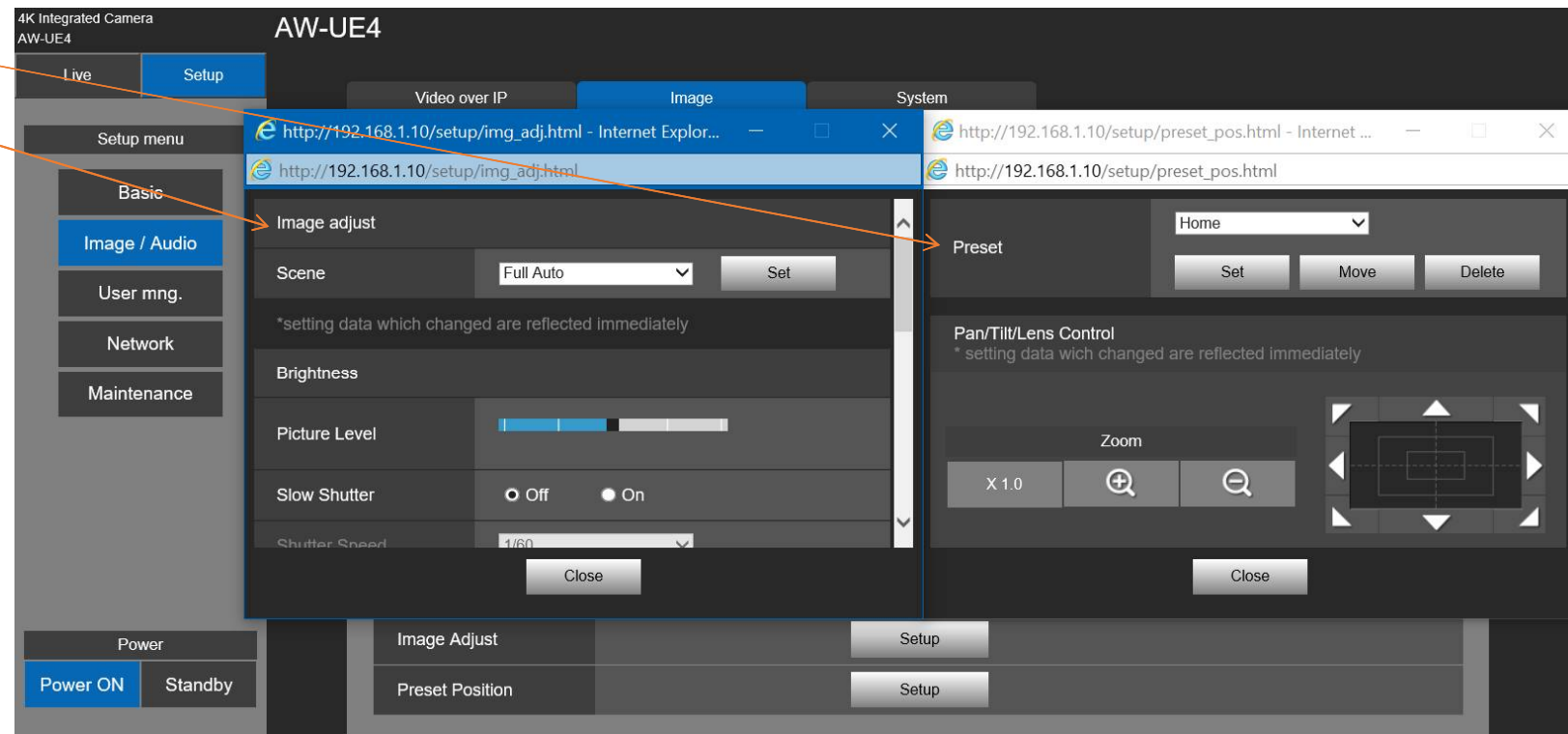
- Next we have the image tab where we can select **Image Adjust** or **Preset Position**
- **Image Adjust** and **Preset Position** open their own individual windows inside the browser once clicked
- All major camera functions can be found here



# How to Configure – Web Interface Setup

## Image / Audio - Preset & Image

- Preset Position & Image Adjust
- There are a large range of functions inside both tabs – Preset is where we can store presets also for the Live Page
- Image adjust contains important corrections like White Balance, Gain and Colour control



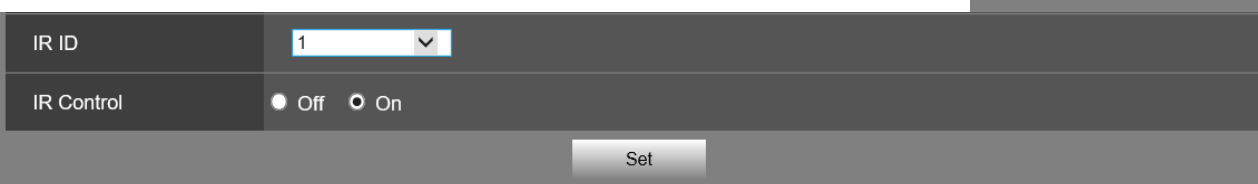
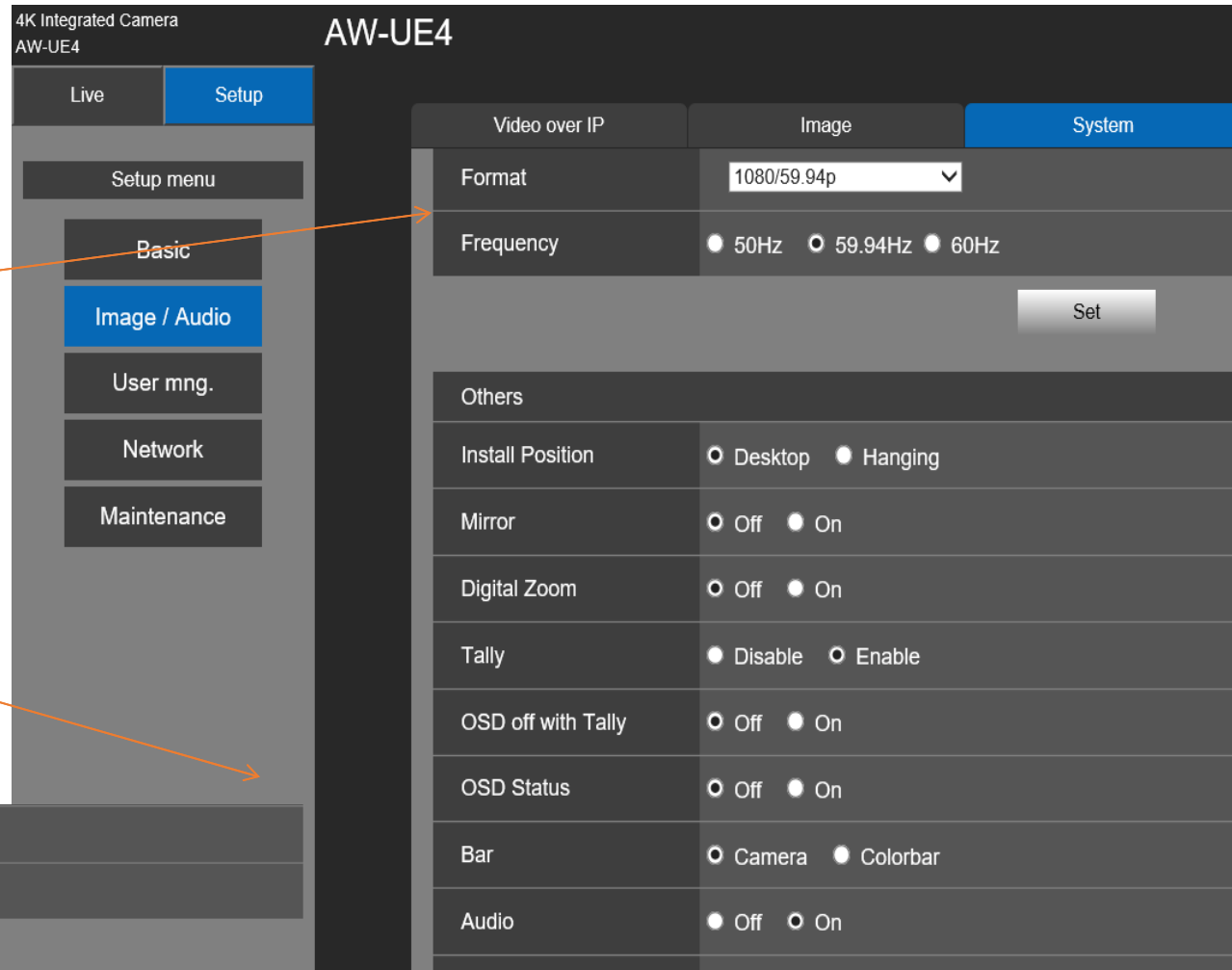
# How to Configure – Web Interface Setup

## Image / Audio - System

- Finally we have the system tab which include important information such as which **Format (4K or HD)** and **Frequency** we want to set the UE4 to.

- Other important setup functions can be found here also, such as the:

Install Position / Mirror / Tally  
 On Screen Display / Menu / Audio  
 IR control set for RM50 (CAM 1 -4 )



# How to Configure – Web Interface Setup

## User Manager

- User Manager is where we can assign **Authentication** for the log in

*\*Warning, only change for on-premise installations and make sure all changes are noted*

4K Integrated Camera  
AW-UE4

Live Setup

Setup menu

Basic

Image / Audio

User mng.

Network

Maintenance

Power

Power ON Standby

User auth.

User auth.  Off  On

Authentication  Basic  Digest

User name

Password

Retype password

Access level  1.Administrator  2.Camera control

User check admin[1]

Set

Set

Delete

Windows Security

iexplore

The server 192.168.1.40 is asking for your username and password. The server reports that it is from require password.

admin

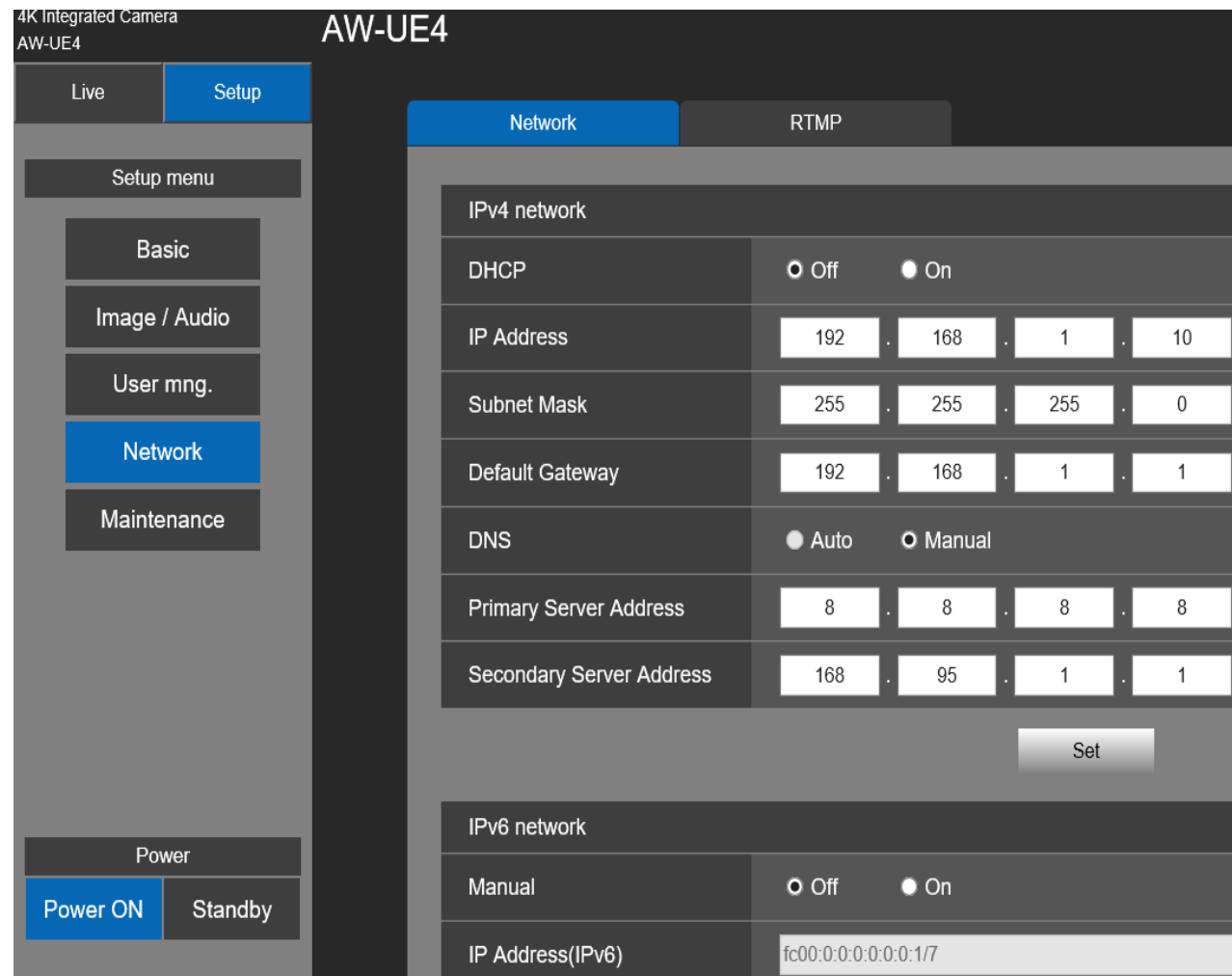
Remember my credentials

OK Cancel

# How to Configure – Web Interface Setup

## Network

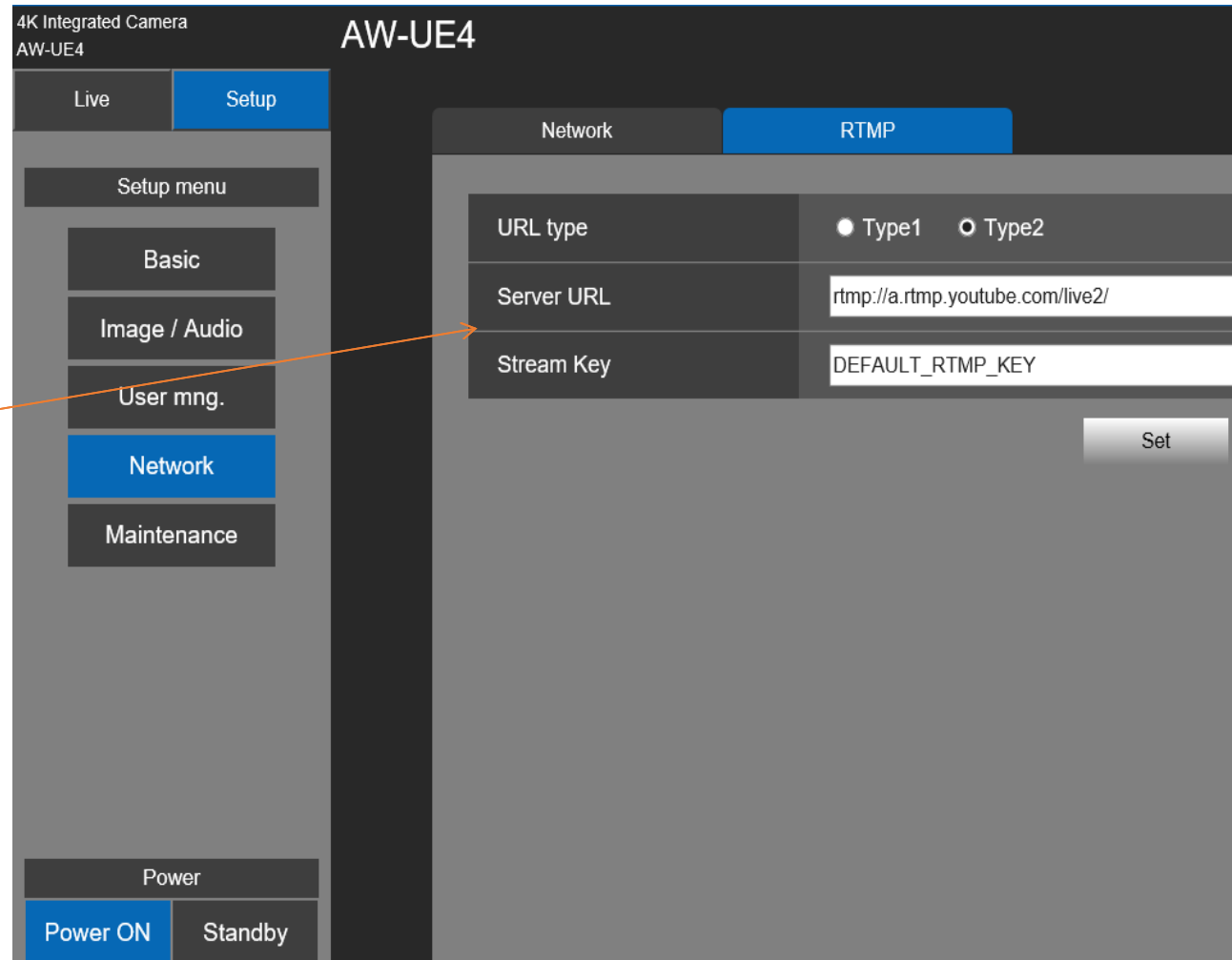
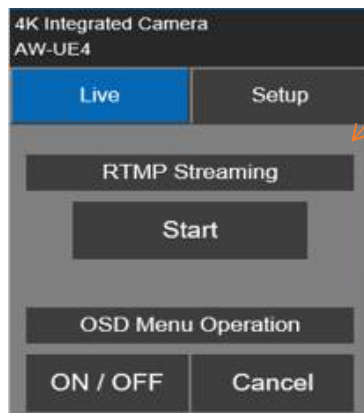
- Like EasyIP, we can also adjust the network settings inside the dedicated network tab on the UE4
- This also includes IPV4 & IPV6, Static & DHCP settings
- The network tab is an accessible option for those that might not have access to EasyIP software such as Mac Users



# How to Configure – Web Interface Setup

## Network - RTMP

- For Live Streaming, RTMP is incredibly easy to setup
- Simply log into your chosen streaming platform then Copy & Paste both the **URL** & **Stream Key** inside the tab which links to the **Live Page RTMP streaming Start / Stop**



# How to Configure – Web Interface Setup

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## Network – RTMP – Important to know from Version 1.23

- ✓ Avoid Stream RTMP in “IP(4K)” Priority Mode due to recognised instability. The Unit can experiences crashes at this time. Recommended to Stream RTMP in “IP” (HD) for best results.
- ✓ RTSP instead works well in IP(4K) Priority Mode. To stream to YouTube/Twitch in 4K you need an external encoder like the OBS Software or a piece of hardware (RTSP → RTMP).
- ✓ If the Unit is in DHCP and crashes, it goes back to its initial address of 192.168.0.10.
- ✓ RTMP works well in 1080p and 720p for YouTube/Twitch/Facebook and similar services



# How to Configure – RM50 Controller Setup

## Hardware: AW-RM50

- The RM50 is the fastest way to start using the UE4 and can **control up to 4 PTZ's**. You can configure each PTZ's IR to be mapped to CAM 1 - 4
- The On Screen Display (OSD) **menu** can also be activated easily to adjust system settings. Here you can configure network functions as well.
- Up to 100 presets can be **stored and triggered** on the UE4 & PTZ's
- **Pan, Tilt, Zoom, Focus, Iris as well as speed** can also be easily set. UE4 has a unique Pan & Scan ability



# How to Configure – Web Interface Setup

## Maintenance – Product Info and how to update firmware

- Maintenance covers 3 important tabs: [Language](#) / [Product Information](#) / [Default Reset](#)

4K Integrated Camera  
AW-UE4

Live Setup

Setup menu

- Basic
- Image / Audio
- User mng.
- Network
- Maintenance**

Power

- Power ON
- Standby

Language Product info. Default reset

Model no.	AW-UE4
MAC address	4C:36:4E:63:F8:9F
Serial no.	F9A0040P
Firmware Version	V00.10
Operation time	26


Upgrade firmware  Browse... Upgrade

Product Info is where we can check UE4 firmware version from [PASS](#) and easily update

# Service and Support

# Easy to Access Free Resources from

# Panasonic Pass



**Professional AV  
Support WEB**

E-mail  
clean.offord@eu.par

Password  
\*\*\*\*\*

**LOG IN**

Forgot password?

**Register now**  
Product / member registration

- » Service overview
- » Applicable models
- » Registration flow
- » Membership rules
- » Privacy Notice
- » Cookie Policy
- » PASS FAQ
- » Inquiry

- » Download
- » Product FAQ
- » Documents
- » New products
- » Owner's voice
- » Global network
- » Newsletter
- » Projector & Display

ENGLISH / JAPANESE

**Information** \*PASS\* membership rule has been revised on 25th May,2018.  
! Caution: Connection to devices  
[NOTICE] Integrated Camera - using AUDIO IN and EXT connector - (Aug 31, 2017)

**Service overview**

**Professional AV  
Global Site**


**Global  
Service network**

**Software  
download**

**FAQ**

**Key code  
activation**

**Documents**



**Panasonic**  
PASS  
Global Concierge for the Lifetime

**Test results**

SD card for P2  
NLE compatibility  
Auto REC compatibility  
CAC Lens file  
P2 Network functions  
Remote camera Browser

**Documents**

**Operating Instructions  
Handbooks**

Remote camera Protocol  
AVC-ULTRA Overview  
News and Information

**What's NEW**

15 Apr., 2019	[ UPDATE ] AV-HS6000 MainFrame Ver 4.12 The XPT function may not work properly under the exceptional conditions. This problem is fixed.
12 Apr., 2019	[ UPDATE ] [VariCam LT] AU-V35LT1G /MC Ver 34.56 The problem of AVCIntra4K 422(25P) clips with only version 34.55 is fixed.
11 Apr., 2019	[ UPDATE ] AU-EVA1 Ver 3.01- The problem of "1080/59i" recording clips with only version 3.00 is fixed.
11 Apr., 2019	[ UPDATE ] AU-EVA1 (for MC, PX models) Ver 3.01- The problem of "1080/59i" recording clips with only version 3.00 is fixed.
11 Apr., 2019	[ UPDATE ] AK-HRP1000 Ver 4.70-00-0.02 AW-UE150 can be operated. The Red-tally control function is expanded. And others.
11 Apr., 2019	[ UPDATE ] AK-HRP1005 Ver 4.70-00-0.00 AW-UE150 can be operated. The Red-tally control function is expanded. And others.
11 Apr., 2019	[ UPDATE ] AK-MSU1000 Ver 4.70-00-0.00 AW-UE150 can be operated.
5 Apr., 2019	[ UPDATE ] AW-UE150 Ver. 2.02 The dedicated WEB browsers for mobile phones are supported. Still image recording function is added. And others.

A Better Life, A Better World

PTZ FAQs can be easily accessed [here](#)

**4K / HD Integrated Camera**

[FAQ](#)  
[Guide Book - Step-by-Step Instructions](#) <sup>up!</sup>

[AW-UE150](#) **FAQ**

[AW-RP150](#) **FAQ**

[AW-HR140](#) **FAQ**

[AW-UE70 AW-HE60/HE50/HE40 AW-HE130/HE120/100 AW-HE2 AW-HS50 AW-RP50](#) **FAQ**

[PTZ Control Center \[Windows\] \(AW-JJLPTZ01\)](#) **FAQ**

[Auto Tracking Software \(AW-SF100\)](#) **FAQ**

[AW-HEA10 PTZ Cntrl app \[iPad\] \(AW-JJLHEA10G\)](#) **FAQ**

**Live Production Center (Switcher)**  
[AV-HLC100](#) **FAQ**

**360-degree Live Camera**  
[AW-360C10 / AW-360B10](#) **FAQ**

INTEGRATED CAMERA AW-UE70 AW-HE130 AW-HE120/100 AW-HE60/50 AW-HE40/65 AW-HE2

Q Filter items...

- +** [FAQ Guide Book](#) **Step-by-Step Instructions** <sup>up!</sup>  
EASY IP Setup Software, User Authentication Function, Chroma Keying, etc.
- +** [AW-HE50, AW-HE60, AW-HE40, AW-HE65, AW-HE120, AW-HE130, AW-UE70, AW-HE2](#) **What is setting range of private IP address?**
- +** [AW-HE2](#) **Can USB connection (WEB camera) feature be used while controlling with Internet Protocol over LAN terminal?**
- +** [AW-HE2 AW-HE60/50](#) **How do I turn the picture upside down?**
- +** [AW-HE120/100 AW-HE60/50 AW-HE130](#) **Is it possible to change the direction of the camera at the time of power-on?**
- +** [AW-HE120/100 AW-HE60/50](#) **What is the maximum extended length (meters) of each of HD-SDI, LAN and Serial cables?**
- +** [AW-HE120/100 AW-HE60/50](#) **Which should be used for LAN cable, Straight or Cross?**
- +** [AW-HE120/100 AW-HE60/50](#) **My Serial cable needs to be extended. Which should be used, Straight or Cross?**
- +** [AW-HE120/100 AW-HE60/50](#) **What is the software required for IP connection?**
- +** [AW-HE60/50](#) **Please tell me what the Multi-Interface cable is like.**

# Integration with Third Party Partners

## Easy to Access Protocol Information

Panasonic Pass has list of API's ready, both serial and IP, no log in required

**Panasonic**  
BUSINESS

The screenshot shows the Panasonic PASS website interface. At the top left, there is a 'PASS' logo with the tagline 'Global Concierge for the Lifetime'. Below it, there is a 'Professional AV Support WEB' section. A login form is visible with fields for 'E-mail' (containing 'dean.offord@eu.par') and 'Password'. A 'LOG IN' button is present, along with a 'Forgot password?' link and a 'Register now' button for 'Product / member registration'. A list of navigation links is provided: 'Service overview', 'Applicable models', 'Registration flow', 'Membership rules', 'Privacy Notice', 'Cookie Policy', and 'PASS FAQ'. The main content area features a 'Service overview' section with a 'Professional AV Global Site' link. Below this are several menu items: 'Global Service network', 'Software download', 'FAQ', 'Key code activation', and 'Documents'. A 'What's NEW' section is also visible. The 'Test results' section lists items like 'SD card for P2', 'NLE compatibility', 'Auto REC compatibility', 'CAC Lens file', 'P2 Network functions', and 'Remote camera Browser'. The 'Documents' section lists 'Operating Instructions', 'Handbooks', 'Remote camera Protocol', 'AVC-ULTRA Overview', and 'News and Information'. An information banner at the top right states: 'Information: "PASS" membership rule has been revised on 25th May, 2018. ! Caution: Connection to devices [NOTICE] Integrated Camera - using AUDIO IN and EXT connector - (Aug 31, 2017)'.





AK-HC1800 AK-HC1500  
 AK-HC3500 AK-HC3800  
 AK-HCU355 AK-HRP935  
 AK-HCU200 AK-HRP200G  
 AK-HVF70G AV-HS6000  
 AV-HS410 AW-HS50E  
 AW-HE130 AW-HE40  
 AV-HS450E AW-HE870E  
 AW-RP120G AW-HE60  
 AU-VCXRAW2 AU-XPD1E  
 AW-HEA10 AW-RP50E  
 AK-MSU935AE AG-CVF15G

AG-AC160 AG-AC130  
 AG-HMR10E AG-AC90  
 AG-AC8EJ AG-DVX200  
 AW-UE70 AK-UC3000  
 AK-UCU500 AK-HC5000  
 AG-AC30 AG-UX180  
 AG-UX90 AU-EVA1  
 AG-UCK20 AG-UMR20  
 AK-UB300 AW-HR140  
 AW-HN40H AK-HRP1000  
 AK-HVF100 AJ-CVF50G  
 AU-XPD3EJ AW-360C10GJ  
 AW-360B10GJ AW-UN70  
 AU-VCVF1G AU-VCVF10G  
 AW-HE38H AW-HN38H  
 AK-MSU1000 AK-UC4000  
 AK-UCU600 AW-HN130  
 AV-HLC100 AV-HS73U2E  
 AV-HS70M AW-RP150  
 AW-UE150 AU-VCVF2GJ  
 AU-VCVF20GJ AG-CX350  
 AW-HE42 AW-UE4  
 AW-RP60 AG-CX10ES  
 AV-UHS500

AG-HPX610 AG-HPX371  
 AG-HPX255 AG-HPX250  
 AG-HPD24 AJ-HPD2500  
 AJ-HPM200 AJ-PX5000  
 AJ-PX270 AJ-PX230  
 AJ-PX380 AJ-PX800  
 AJ-PD500 AJ-PG50  
 AJ-HPX3100 AU-V35C1G  
 AU-V23HS1G AU-VREC1G  
 AU-V35LT1G AG-HPX500E  
 AG-HPX600 AG-3DP1G  
 AJ-HPX3700G AJ-CX4000GJ

# Panasonic BUSINESS



## Warranty Information 2, 3 and 5 year options

To be entitled to this Guarantee, you must register the Product within 60 days of purchase of the Product at: <https://business.panasonic.eu/service/>



# Case Studies in Action

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## Kings Place, London

How live music and corporate events are produced using a small crew

- Modern concert venue consists of two concert halls, two art galleries and a handful of event spaces
- Total of 6x HE130s used to support varied programme of events including art events, comedy, podcasts and a multitude of corporate events
- HE130 was chosen in order to accommodate the venues lighting requirements, with art-based events in particular often a bit darker
- *'We visited venues with Panasonic PTZs already installed including the Barbican and the Royal Academy of Music. We did this to look at how they integrate into existing control systems back-of-house'.*  
Chris Philips, Director of Technical & ICT



## Supreme Court of the UK, London

### How to upgrade a current broadcasting system using NDI|HX

- All cases held at The Supreme Court have been live streamed and archived on their website to make the court fully accessible to all
- Three court rooms are equipped with four Panasonic HN130s, a RP150 camera controller and NewTek Tricaster
- Completed live stream via Microsoft Azure Services that sustained an audience of four and a half million at its peak and ten million in a day
- *“PTZs are the least intrusive option that guarantee transparency in the courtroom..they also give the camera operator the right level of control...(ensuring) shots of high production value”.* Dan Money, Technical Architect
- Case study video can be viewed [here](#)



## Slovenian Parliament, Ljubljana

### How to provide an unobtrusive installation with high-quality video in difficult light situations

- Installation of PTZ cameras with special wall mounts to transmit National Assembly sessions to support local broadcasters with content for news
- Highly efficient lenses were needed due to different framing with cameras installed in a fixed position
- PTZs were chosen as due to being less obtrusive, high sensitivity and picture quality, and the fact that the cameras provide quick and silent motion during operation
- Use of HD-SDI for image output and control and monitoring via IP



## Cisco Live, San Diego

### How to implement automation into a large-scale live stream

- Upgraded content capture across more than 700 breakout sessions at annual customer conference
- Used 63 UE70 PTZs and AW-SF200 auto-tracking software to automatically track presenters via face and body detection thanks to [Deep Learning technology](#)
- *“(The move)...to Panasonic PTZs with deep learning was brought on by this very dynamic real-world environment, as opposed to a controlled environment where you have time to set up and capture faces. It’s worked out tremendously...”*  
Peter Stone, Programme Manager
- Case study video can be viewed [here](#)



Thank you

For all enquiries, please  
contact your local Panasonic  
representative

