# Panasonic BUSINESS

AW-UE70W [White Model]
AW-UE70 K [Black Model]
4K Integrated PTZ Camera

For indoor use



# Capture and Deliver the Moment with 4K over IP



# 4K image quality gives greater depth to the video, and IP video output flexibly delivers content



The compact AW-UE70W/K integrated pan-tilt remote camera can output 4K video via HDMI, USB and IP transmission. By introducing technological capabilities developed in our 4K cameras for movie production and TV station use, we created the AW-UE70W/K as a 4K integrated camera that can be effectively used in a variety of environments. It achieves 4K shooting in situations where higher image quality is necessary, such as lecture recordings and conference, wedding and funeral hall content production.



# A four-drive lens system for high-image-quality zooming in 4K shooting

With the four-drive lens system, three zoom lenses and one focus lens are driven independently and simultaneously. Since the four groups of lenses can be driven separately, we were able to efficiently minimize the size and drive range of each lens and thereby achieve a smaller body and a zoom mechanism with high magnification and high image quality. Despite its compact size, the AW-UE70W/K has a high-resolution 20x optical zoom and a high-performance iA 22x zoom (4K mode).



\* Images are simulated

# Four types of output connectors. 4K output via HDMI, USB and LAN.

On the back of the unit, there are four types of output connectors which are HDMI, SDI, USB and LAN. 4K video output can be done not only via HDMI, but also via USB and LAN. This makes it possible to build a flexible system matching the specific objectives and environment.

#### Supported formats with each output connector

ндмі	2160/29.97p,2160/25p,1080/59.94p,1080/50p,1080/59.94i,1080/50i,1080/29.97PsF,1080/25PsF,1080/29.97p, 1080/25p,720/59.94p,720/50p
SDI	1080/59.94p,1080/50p,1080/59.94i,1080/50i,1080/29.97PsF,1080/25PsF,1080/29.97p,1080/25p,720/59.94p, 720/50p
USB	2160/5p,1080/30p,1080/25p,1080/15p,1080/12.5p,1080/5p,720/30p,720/25p,720/15p,720/12.5p,720/5p, 360/30p,360/25p,360/15p,360/12.5p,360/5p
LAN	For details, please see "List of Supported Multi-Streaming Outputs" on page 4.

#### 1/2.3-type MOS Sensor

Equipped with a 1/2.3-type MOS sensor and DSP (Digital Signal Processor) for high sensitivity and high resolution.

#### High Performance Optical 20x Zoom Lens/ Super Resolution 30x Zoom

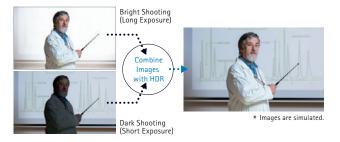
In addition to a 20x optical zoom, the AW-UE70W/K series can zoom up to 30x (22x when in 4K mode) while maintaining high resolution thanks to Super Resolution technology. It also features a 12x digital zoom\*1 and a 1.4x, 2.0x, 4.0x, 6.0x, and 8.0x digital extender zoom which can be used for 4K focus assist. These capabilities enable the AW-UE70W/K series to shoot in large conference halls and classrooms.



\*Images are simulated

## Equipped with High Dynamic Range (HDR) Mode\*2

In addition to conventional Dynamic Range Stretch (DRS) and Digital Noise Reduction (DNR), the AW-UE70W/K is equipped with High Dynamic Range (HDR) mode. When shooting and synthesizing two images with differing exposure times, the AW-UE70W/K can create video with high visibility that corrects for halation and black defects even under backlit conditions.



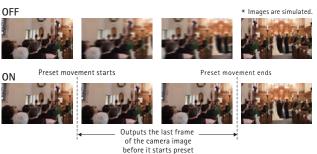
#### Optical (FHD, 4K)/4-axis Hybrid Image Stabilizer (FHD) for Stable Shooting

Image shake is reduced with both optical and digital 4-axis automatic stabilization that detects mounting surface vibration caused by audio equipment and opening/closing doors.

#### Outputs Still Image During Preset Movements; **Supports One-Camera Operations**

The Freeze During Preset function enables to freeze the video during preset playback. The immediately preceding still image is output during preset movements so that the swiveling movement is not displayed, making operations possible with one camera.

#### With Freeze During Preset function OFF and ON



#### Night Mode (supports automatic switching)

Switching to Night Mode makes shooting possible even in low light conditions in which shooting is normally difficult, such as when observing wildlife\*3. The AW-UE70W/K can also be set to switch to the mode automatically depending on surrounding light levels.



#### **Audio Input Function**

The AW-UE70W/K also supports audio input, embedding and encoding. Audio output to IP is also supported. The ALC (Audio Automatic Level Control) in the AW-UE70W/K can be switched ON/OFF and an equalizer function can be used. By reducing low-frequency sound from air conditioners, projectors, and other devices, it is possible to emphasize and increase the clarity of the spoken words.

#### Both SDI and HDMI are Supported, and There is Also an External Synchronization Signal\*4 Input Connector



For SDI/HDMI output, 2160/29.97p (HDMI only), 2160/25p (HDMI only), 1080/59.94p, 29.97p, 59.94i, 29.97PsF, 1080/50p, 25p, 50i, 25PsF, 720/59.94p, and 50p image formats are supported. In addition, there is an external synchronization signal input connector, and BBS (Black Burst Sync) and tri-level synchronization are supported.

#### Video/Audio Output with USB



USB Video Class 1.0 and USB Audio Class 1.0 are supported. This enables video and audio output via USB so the cameras can be used as high-image-quality Web cameras for Web conferencing, distance learning, and other applications utilizing communication software.

#### MicroSD Card Recording Function\*5



Camera video and audio can be recorded in MP4 format on microSD card (sold separately) inserted into the unit. In addition, using an IP network, it is possible to externally control recording start/stop and

micro SD

#### Supported formats for micro SD (recording):

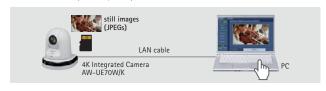
download the recorded files.

2160/29.97p,2160/25p,1080/59.94p,1080/50p,1080/29.97p, 1080/25p,720/59.94p,720/50p,720/29.97p,720/25p

#### Equipped with a JPEG Image Saving Function\*

The equipped JPEG Image Saving Function enables up to 99 still images (JPEGs) to be captured from video and saved to the microSD card. These images can easily be remotely saved, played back and deleted from a PC web browser connected via a LAN cable.

\*A version software update may be required for use



- 1: Picture quality is lower with the digital zoom.
- \*2: Cannot be used when in 4K mode.
- \*3: Video output is monochrome.
- \*4: External synchronization synchronizes with SDI video signals. It does not synchronize with HDMI video signals or IP video signals.
- \*5: There may be instances where it is not possible to record in the same format as the output video.

#### Full HD Video Output Via IP Transmission \*1



In addition to HDMI, SDI and USB output, production quality 4K/fullHD video output via IP transmission is supported. For 4K video output via IP transmission, there can be one channel of IP video output of up to 30 frames/second. At full HD image quality, IP video output up to 60 frames/second is possible. One camera delivers up to four channels\*1 of IP streaming video (H.264), and simultaneous transmission to as many as 14 devices is supported\*2, so that flexible system setup is possible to meet various application needs.



## List of Supported Multi-Streaming Outputs (When priority mode "IP" or "IP (4K)" is selected)

Settings		H.264				JPEG			
		CH1	CH2*3	CH3*3	CH4*4	CH1	CH2	CH3	
Resolution	IP selected ution		1920×1080 1280×720*3 640×360*5	1280×720 640×360 320×180			1920×1080*4 1280×720*3 640×360 320×180*3		
	IP (4K) selected		3840×2160		-		640×360 320×180		-
	IP selected	59.94 Hz	60/30/15/5 fps		30/15/5 fps			30/15/5 fps	
Frame rate		50 Hz	50/25/12.5/5 fps		25/12.5/5 fp	s		25/12.5/5 fps	
	IP (4K)	59.94 Hz	30/15/5 fps	-		15/5 fps	_		
		50 Hz	25/12.5/5 fps		-		12.5/5 fps	-	-
Bit rate			Up to 50 Mbps at 4K or up to 24 Mbps otherwise						
Voice transmission			Yes (AAC48 KHz)						
PoE+			Yes						

<sup>\*</sup>Depending on the output mode, certain restrictions apply.

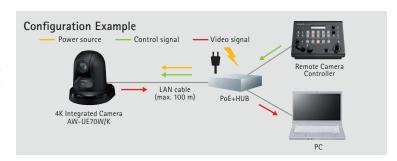
#### NDI HX Compatibility for Excellent Video Streaming Quality

The AW-UE70W/K can be upgraded to an NDI|HX compatible model if purchasing a license from the NewTek website (https://pro-av.panasonic.net/en/ndihx\_support/index.html). Highly efficient NDI HX compatibility enables excellent broadcast streaming by encoding and transmitting high-quality video in real time. This technology eliminates the need for IP decoders, allowing input to be sent directly to the switcher.

### System Configuration AC Adaptor NDI HX Supported Connection AV-HIC100 Live Streaming Service PoE+HUB \* Power over Ethernet Plus, IEEE 802,3at

#### Supporting PoE+\*6 for Lower Installation Costs

By connecting network devices that support the IEEE802.3at PoE+ standard, power can be supplied via LAN cable. Since it is not necessary to install a power supply or even a local AC outlet, installation costs can be significantly reduced.



#### IP Control with Image Monitoring Using PC, Mac and Mobile Terminals

Using an IP browser, the camera can be controlled from a remote location, and IP video monitoring and remote camera control can be performed from a PC, Mac or mobile terminal such as an iPhone, iPad or Android device, enabling easy operations.

\*For the latest information on supported OS/browsers, please refer to the "service and support" section on the Panasonic website (https://pro-av.panasonic.net/en/).

#### Camera Control Screen (PC)



Live Screen

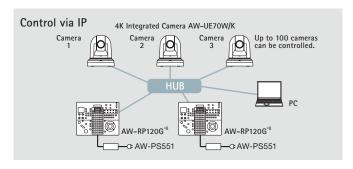
# Screen

Mobile Terminal

\*Images are simulated

#### Flexible IP Control Architecture Simplifies System Design and Operation\*7

Up to 100 x AW-UE70W/K cameras can be controlled via IP from a single AW-RP120G/RP50 or PC. An AW-UE70W/K can also be simultaneously controlled by up to five AW-RP120G/RP50's via IP.



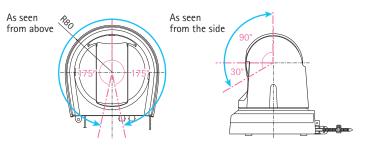
<sup>\*</sup> Contact your local Panasonic vendor for further information.

<sup>\*1: 1920</sup> x 1080 60 fps output is 1ch display only. For 2ch or more, display is max. 30 fps. Also, JPEG output is up to 3ch. \*2: Depends on your network environment.
\*3: Settable when HDR is "Off". \*4: Settable when HDR is set to "Off" and the frame rate is other than 60fps (or 50fps). \*5: Not settable when HDR is "Off". \*6: Abbreviation of Power over Ethernet Plus.
\*7: Controller upgrade required. For details, please refer to the "service and support" section on the Panasonic website (https://pro-av.panasonic.net).

<sup>\*8:</sup> AC adaptor AW-PS551 (sold separately) is required for AW-RP120G.

# Exceptional Pan-tilt Performance for Smooth Shooting Over a Wide Area\*1

The pan range of  $\pm 175^{\circ}$  and the tilt range of  $-30^{\circ}$  to  $+90^{\circ}$  cover a wide shooting area\*1. Pan and tilt operate at a maximum speed of  $90^{\circ}$ /second and respond quickly to remote control operation. They operate quietly at a sound level of NC35 or lower.



\*1: Depending on the position of the pan and tilt, the unit itself may be reflected in the image.

#### Other Functions

- Preset memory up to 100 positions.
- Functions such as freeze during preset, digital extender zoom and color temperature settings can be assigned to the user buttons on Panasonic controllers.
- Equipped with RS422 remote terminal; up to five units can be controlled via serial control from a controller.
- Equipped with RS232C remote terminal (standard serial communication support). Up to seven units can be controlled via daisy chain connection.
- Up to four units can be operated with a wireless remote controller (AW-RM50G sold separately).
- Easy installation thanks to use of turn-lock mechanism.



System Camera Options

As of April, 2018

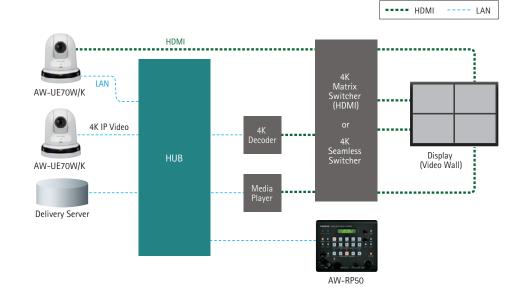


#### Application 01: Signage

# Signage that expresses the mood of the location by 4K video

Place AW-UE70W/K cameras in a large commercial facility or event venue to record the live footage. You can then show 4K video on a large video wall. By splitting the screen display, you can show video from a variety of spots.



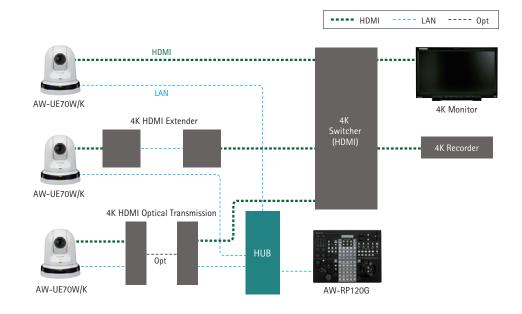


#### Application 02: Video Production

# Production of 4K video using compact remote cameras

Efficiently add AW-UE70W/K cameras to a 4K switcher of an existing studio. This allows you to build a compact 4K program production system capable of handling professional uses while achieving good cost performance.



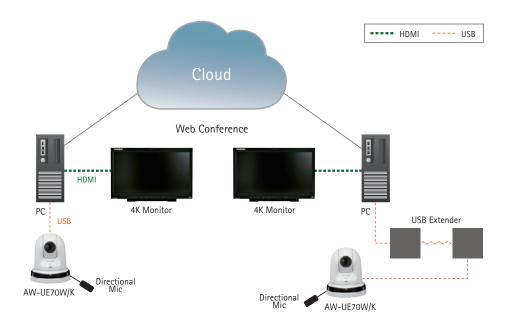


#### Application 03: Web Conferencing

# Web conferences with high-definition views from the venue as a whole to individual speakers

Set up AW-UE70W/K cameras to achieve high-resolution zooming in 4K/HD at web conferences. Catch the big picture with high-definition video that shows all the details including the expressions of individual speakers by high-resolution zooming. That way, you can shoot conference video that gives a feel of almost like being there.





**Specifications** As of April, 2018

Power requirements	
Current consumption   1.3 A [Supplied AC adaptor)   1.080:59.94/β50i   1.080:29.97/β25p   1.080:29.97/β25	
Current consumption   0.5 A   PoE+ power supply	
Current consumption   0.5 A (PoE+ power supply)   1080:29.97P2F2P5   1080:29.97P2F2P5F   1080:29.97P2F2F2F2F2F2F2F2F2F2F2F2F2F2F2F2F2F2F2F	
Ambient operating temperature 0 °C to 40 °C (32 °F to 104 °F)  Storage temperature -20 °C to 50 °C (-4 °F to 122 °F)  Allowable humidity range 20 % to 90 % to	
Storage temperature -20 °C to 50 °C (-4 °F to 122 °F)  Allowable humidity ranges 20 % to 90 % (no condensation)  Mass Approx. 1.5 kg (3.30 lb)  Independent of the finish [AW-UE70K] Metallic black [AW-UE70K] Metallic standard)  Power D C 12 V IN, PoE+ (IEEE802.3at standard)  Stereo mini-jack (93.5 mm) [Mini impedance: Approx. 2 kΩ (unbalanced) [Mini imped)  Injuri impedance: Approx. 2 kΩ (unbalanced) [Mini imped)  Transfer modes(JPEG)   Synchronization system Internal synchronization [External synchronization (Batternal synchronization (Batternal synchronization (Batternal synchronization)  Synchronization system Internal synchronization (Batternal synchronization (B	
Allowable humidity ranges 20 % to 90 % (no condensation)  Mass Approx. 1.5 kg (3.30 lb)  Dimensions (W x H x D) [6-5/16 inches x 7-41/128 inches x 7-3/64 inches) [excluding protrusions, direct ceiling mount bracket]  Finish [AW-UE70W] Pearl white [AW-UE70W] Pearl white [AW-UE70W] Per (IEEB002, 3at standard)  Power O 12 V IN, Per (IEEB002, 3at standard)  Stereo mini-jack (a3.5 mm) Input impedance: Approx. 2 kΩ (unbalanced) [Missing tabilizer)] [Missing tabilizer) [Missing tabilizer) [Missing tabilizer) [Missing tabilizer] [Missing tabilizer	
Mass   Approx. 1.5 kg (3.30 lb)   Mass   Approx. 1.5 kg (3.30 lb)	
Mass Approx. 1,5 kg (3.30 lb)  I fol mm x 186 mm x 179 mm Dimensions (W x H x D)  [6-5/16 inches x 7-41/128 inches x 7-3/64 inches) [excluding protrusions, direct ceiling mount bracket]  Finish [AW-UE70K] Metallic black Controller supported*1 AW-RP50, AW-RP120G, AK-HRP1000GJ, AK-HRP1005GJ Power  O T 2 V IN, Poef. (IEEB02.3 at standard) Stereo mini-jack (g3.5 mm) Input impedance: Approx. 2 kΩ (unbalanced) [IMI impedance: Approx. 2 kΩ (unbalanced)	TOLSTADIC
Dimensions (W x H x D) (6-5/16 inches x 7-3/164 inches) (ex-5/16 inches x 7-3/164 inches) (ex-5/16 inches x 7-3/164 inches) (ex-5/16 inches x 7-3/164 inches) (excluding protrusions, direct ceiling mount bracket) (7/160 compression format with motion JPEG Resolution 1920 x 1080, 1280 x 720, 640 x 360 (1920 x 720, 640 x 3	
Dimensions (W x H x D)   (6-5/16 inches x 7-3/64 inches x 7	
Excluding protrusions, direct ceiling mount bracket	
Finish   [AW-UE70K] Pearl white   [AW-UE70K] Metallic black   [AW-UE70 K] AW-RP120G, AK-HRP1000GJ, AK-HRP1005GJ   [AW-RP50, AW-RP120G, AK-HRP1000GJ, AK-HRP1005GJ   [AW-WE70 K] AW-RP120G, AK-HRP1000GJ, AK-HRP1005GJ   [AW-WE70 K] AW-WE70 K] Audio output   USB Audio Class Ver1.0   [AW-WE70 K] AUdio compression format   [AW-WE70 K	
Frame rate   Fr	
Controller supported*1	
Controller supported*1 AW-RP50, AW-RP200G, AK-HRP2000GJ, AK-HRP1005GJ Power DC 12 V IN, PoE+ (IEEE802.3at standard) Stereo mini-jack (ø.3.5 mm) Input impedance: Approx. 2 kΩ (unbalanced) [Mic input] Input impedance: Approx. 2 kΩ (unbalanced) Input impedance: Approx. 2 kΩ (unbalance	
Power   DC 12 V IN, PoE+ (IEEE802.3at standard)   Audio compression format   Linear PCM, 48 kHz, 16-bit, 2 channels   3840x2160	
Stereo mini-jack (φ3.5 mm)   3840x2160     Input impedance: Approx. 2 kΩ (unbalanced)   Imput impedance: Approx. 2 kΩ (unbalanced)   Transfer modes(JPEG)   59.94 Hz; 5fp, 50 Hz; 5fp. 5fp. 5fp. 5fp. 5fp. 5fp. 5fp. 5fp.	
Input impedance: Approx. 2 kΩ (unbalanced) [Mic input]  Transfer modes(JPEG)  Transfer modes(JPEG)  1920x1080/1280x720/640x360	
[Mic input] Transfer modes(JPEG) 1920x1080/1280x720/640x360	
[WIC III] 1920x1080/1280x720/640x360	
Supported microphones: Stereo mic 59.94 Hz: 30fps/15fps/5fps, 50 Hz: 25fps/12.5fps/5fp	
INPUT Mic/line input (plug-in power, on/off switching via menu) Supported models Devices standardly equipped with a USB 2.0 compatil	e port
Supplied voltage: 2.5 V ± 0.5 V [Pan-tilt head unit]	
Mic input level: -60 dBV ± 3 dBV (0 dB=1 V/Pa,1 kHz)  Mic input level: -60 dBV ± 3 dBV (0 dB=1 V/Pa,1 kHz)  Installation method Stand-alone (Desktop) or suspended (Hanging)*5	
[Line input] Pan/tilt operation speed Maximum speed during preset: 300'/s	
Input level: -10 dBV $\pm$ 3 dBV	
G/L IN BBS (Black Burst Sync) signal and tri-level sync supported (BNC x 1)  Panning range ±175*	
Tilting range = 30° to 90° to	
HDMI connector  During preset: NC40 or less	
OUTPUT video *HDCP is not supported. * VIEKA Link is not supported.	
3G/HD-SDI OUT Compliant with the SMPTE424/SMPTE292M standards/75 \(\Omega(BNC x 1)\) [Camera/pan-tilt head control]	
I ANI connector for ID control (P.I. 45)	
AN	
Equipped with straight/crossover cable auto detection function  FUNCTIONS  LAN cable*7 (category 5 or above), max. 100 m (328 fi	
INPUT/ Input/ Output RS-232C Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT) AND OUTPUT OUTPUT OUTPUT PS 422 CONTROL IN DEACH OUT OUT OUT OF THE PS 422 CONTROL IN DEACH OUT	
OUTPUT CONNECTOR RS-422 CONTROL IN RS422A (RJ-45) PERFORMANCE LAN cable*7 (category 5e or above), max. 100 m (328	t)
USB Mini-B port When a hub is not used:	,
There are the second se	
Entrada (estegal) and adove, maximum (sea	
The protocol connecting caste. Earlie caste (category of or above paragraph caste) max	1000 m (3280 ft)
Motorized 20x zoom, F1.8 to F3.6 connecting capie	
Lens [f=4.08 mm (5/32 inches) to 81.6 mm (3-7/32 inches); 35 mm (1-3/8 inches) [SD card recording]	
equivalent; 29.5 mm (1-5/32 inches) to 612.0 mm (24-3/32 inches)]  SD card recording  MPEG-4 AVC file standard compliant (.MP4)	
Focus Switching between auto and manual Video compression format MPEG-4 AVC/H.264 High Profile	
Entire zooming range:1.5 m (4.92 ft)  Audio compression format AAC-LC (48 kHz, 16 bit, z ch, 128 kbps)	
Focus distance Processing and Control (4.92 ft)	(II- +- 20 Mb)
Wide end: 10 cm (0.33 ft) 3840x2160/29.97p (Up to 72 Mbps), 1920x1080/59.94p	
Color separation On-chip color filter system 1920x1080/29.97p (Average 15 Mbps/Average 10 Mb	s/Average 6 Mbps),
optical system On-chip color filter system 59.94 Hz 1280x720/59.94p (Average 15 Mbps),	
0.7 lx (50 IRF F1.8.48 dB 1/60 without accumulation) Recording format 1280x720/29.97p (Average 8 Mbps/Average 4	ge 2 Mbps/Average 1 Mbps)
59 94 Hz	
59.94 Hz 0.35 Ix (SO IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB]) /Bit rate 3840x2160/25p(Up to 72 Mbps), 1920x1080/50p(Up to	8 Mbps),
Minimum illumination   59.94 Hz   0.35 kr (50 IRE, F1.8, 48 dB,1/30 with accumulation)   70 kr (50 IRE, F1.8, 48 dB,1/30 without accumulation)   1920x1080/50p(Up to 72 Mbps), 1920x1080/50p(Up to 72 Mbps), 1920x1080/25p(Average 15 Mbps/Average 10 Mbps/A	8 Mbps),
Minimum	8 Mbps), verage 6 Mbps),
Minimum   59.94 Hz   0.35 kx (S0 IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   /Bit rate   3840x2160/25p(Up to 72 Mbps), 1920x1080/50p(Up to 1920x1080/	8 Mbps), verage 6 Mbps),
Minimum illumination   59.94 Hz   0.35 kx (SO IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   // (Bit rate   3840x2160/25p(Up to 72 Mbps), 1920x1080/50p(Up to 1920x1080/25p(Average 15 Mbps), 40.7 kx (50 IRE, F1.8, 48 dB,1/30 without accumulation)   // (SO IRE, F1.8, 48 dB,1/30 withou	8 Mbps), verage 6 Mbps),
Minimum   59.94 Hz   0.35 kx [SO IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB]]   // Six [SO IRE, F1.8, 48 dB,1/30 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/30 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/30 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/20 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/20 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/20 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/20 with accumulation]   // Six [So IRE, F1.8, 48 dB,1/20 with accumulation]   // Six [	8 Mbps), verage 6 Mbps),
Minimum illumination   59.94 Hz   0.35 fx (50 IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   // (18	8 Mbps), verage 6 Mbps),
Minimum	8 Mbps), verage 6 Mbps),
Minimum	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum illumination   59.94 Hz   0.35 kx (S0 IRE, F1.8, 48 dB, I/30 with accumulation[Frame Mix 6 dB])   0.71 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 without accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 without accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 without accumulation)   1920x 1080/25p(Average 15 Mbps/Average 10 Mbps/Av	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum illumination   59.94 Hz   0.35 kx (50 IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   1920x1080/25p(Up to 72 Mbps), 1920x1080/50p(Up to 1920x1080/25p(Up to 72 Mbps), 1920x1080/50p(Up to 1920x1080/25p(Average 15 Mbps/Average 10 Mbps/Post 192	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum illumination   59.94 Hz   0.35 kx (S0 IRE, F1.8, 48 dB, I/30 with accumulation[Frame Mix 6 dB])   0.71 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   0.70 kx (50 IRE, F1.8, 48 dB, I/30 with accumulation)   1920x1080/25p(Average 15 Mbps/Average 10 Mbps/Aver	.8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum	.8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum illumination   59.94 Hz   0.35 kx (So IRE, F1.8, 48 dB, 1/30 with accumulation[Frame Mix 6 dB])   0.7 kx (50 IRE, F1.8, 48 dB, 1/30 with accumulation)   0.07 kx (50 IRE, F1.8, 48 dB, 1/30 with accumulation)   0.35 kx (50 IRE, F1.8, 48 dB, 1/30 with accumulation)   1920x (080/25p(H2 varge 15 Mbps), was packed with a complex of the policy of	.8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)
Minimum	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   10.35 kx (So IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   1920x (1080/25p[Up to 72 Mbps), 1920x (1080/50p[Up to 1920x (1080/25p[Up to 72 Mbps), 1920x (1080/50p[Up to 1920x (1080/25p[Up to 72 Mbps), 1920x (1080/50p[Up to 1920x (1080/25p[Up to 72 Mbps), 1920x (1080x (1280x 20), 1920x (1080x (	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   0.35 kx (So IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   0.7 kx (So IRE, F1.8, 48 dB,1/30 with accumulation)   0.7 kx (So IRE, F1.8, 48 dB,1/30 with accumulation)   0.35 kx (So IRE, F1.8, 48 dB,1/30 with accumulation)   0.35 kx (So IRE, F1.8, 48 dB,1/30 with accumulation)   0.35 kx (So IRE, F1.8, 48 dB,1/25 with accumulation)   0.35 kx (So IRE, F1.8, 48 dB,1/25 with accumulation)   4K: 1300 TV lines Typ (Center area)   HD: 1000 TV lines Typ (Cen	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   S9.94 Hz   O.35 kx (SO IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   S9.94 Hz   O.35 kx (SO IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   59.94 Hz   0.35 kz (So IRE, F1.8, 48 dB, 1/30 with accumulation[Frame Mix 6 dB]	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   S9.94 Hz   D.35 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation[Frame Mix 6 dB])   O.7 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation)   O.7 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation)   O.7 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation)   O.7 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation)   O.35 lx (S0 IRE, F1.8, 48 dB,1/30 with accumulation   O.35 lx (Ba)	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   59.94 Hz   0.35 kx [So IRE, F1.8, 48 dB,]/30 with accumulation[Frame Mix 6 dB]   0.7 kx [So IRE, F1.8, 48 dB,]/30 with accumulation	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,
Minimum illumination   S9.94 Hz   O.35 kx (SO IRE, F1.8, 48 dB, I/30 with accumulation[Frame Mix 6 dB])	8 Mbps), verage 6 Mbps), e 2 Mbps/Average 1 Mbps)  0, DHCPv6, DNS,

\* 1: It may be necessary to upgrade the version of the controller so that the controller will support the unit. \* 2: During Auto, 6 dB to 48 dB (6 dB step) are available for AGC Max Gain setting.

\* 3: During Auto, 0 dB, 6 dB, 12 dB and 18 dB are available for Auto F.Mix Max Gain setting, \* 4: "Auto" is available when "Scene" setting is "Full Auto".

\* 5: To ensure safety, the unit must be secured using the mount bracket supplied. \* 6: Depending on the pan or tilt position, the camera may be reflected in the image.

\* 7: Use of an STP (shielded twisted pair) cable is recommended. \* 8: The frame rate may be lower than the setting depending on the operating conditions.

\* 9: When the image resolution is "3840x2160", "640x360" or "320x180", 60fps or 50fps cannot be selected for the frame rate. \* 10: To ensure more safety, AW-UE70W/K can be secured by using the direct ceiling mount bracket (WV-Q105A).

#### **Computer Requirements** As of April, 2018

CPU	When using 1080/60p [59.94 Hz] and 1080/50p [50 Hz] Intel® CoreTM i7 3.4 GHz or higher recommended Other than above Intel® CoreTM2 Duo 2.4 GHz or higher recommended					
Memory	For Windows	1 GB or higher (2 GB or higher for Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7 64-bit edition)				
Wellory	For Mac	2 GB or more				
Network function	10BASE-T or 100BASE-TX port x 1					
Image display function	Resolution: 1024 x 768 pixels or more Color generation: True Color 24-bit or more					
Supported operating system and web browser	Windows	Microsoft® Windows® 8.1 Pro 64-bit/32-bit* <sup>11</sup> Windows® Internet Explorer® 11.0 Microsoft® Windows® 8 Pro 64-bit/32-bit* <sup>11</sup> Windows® Internet Explorer® 10.0* <sup>11</sup> Microsoft® Windows® 7 Professional SP1 64-bit/32-bit* <sup>12</sup> Windows® Internet Explorer® 8.0 / 9.0 / 10.0 / 11.0* <sup>13</sup>				
	Mac	OS X 10.8 Safari 6.2 / OS X 10.9 Safari 7.1 / OS X 10.10 Safari 8.0				
	iPhone / iPad / iPod touch	iOS 8.3 Standard browser				
	Android	Android OS 4.4 Standard browser				
Other	CD-ROM drive (for using the Operating Instructions and various software) Adobe® Reader® (for viewing the Operating Instructions on the CD-ROM)					

\*11: Use the desktop version of Internet Explorer. (Internet Explorer for Windows UI is not supported.) \*12: Windows® XP compatibility mode is not supported. \*13: The 64-bit version of Internet Explorer® is not supported.

For the latest information on supported OS/browser, please refer to the "service and support" on the Panasonic website (https://pro-av.panasonic/en/).

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

•Android™ is a trademark of Google Inc.

#### **Optional Software**

Auto Tracking Software Key

#### AW-SF100/AW-SF200

2 Additional Licenses AW-SF202 3 Additional Licenses AW-SF203

A 30-day Free Trial is Available

- Motion detection and face detection technologies using video streaming from camera achieves smooth auto tracking regardless of where the person is facing.
- AW-SF100 allows a single PTZ camera to be controlled on either a stand-alone or web application version.
- AW-SF200 enables simultaneous auto tracking and centralized control of multiple cameras.\*1
- \*1: Up to four cameras per server can be controlled simultaneously.

#### **PTZ Control Center**

Free Software

- Intuitive GUI with the capability to control multiple cameras.
- Image quality adjustment and pan-tilt-zoom control on a GUI.
- Easy to recall presets by clicking preset buttons with thumbnails.

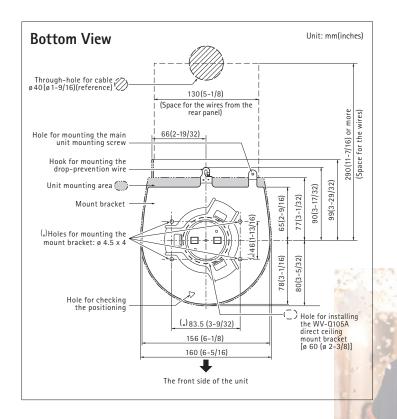


Main View

#### PTZ Virtual USB Driver

Free Software

- High quality video perfect for web conferencing, utilizing a PTZ camera on the network as a USB camera.
- Automatic detection of connected cameras, and network settings supported.
- \* For further information on the optional software, please see "Software Download" on the Panasonic website <a href="https://pro-av.panasonic.net/">https://pro-av.panasonic.net/</a>.



#### **Rear View**



For more information, please visit Panasonic web site



\*Specifications are subject to change without notice.

### **Panasonic**

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Factories of AVC Networks Company have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)