

Preliminary



12GSDI

HDMI<sup>™</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

### First 4K 60p/50p<sup>\*1</sup> PTZ Camera supporting NDI<sup>\*2</sup> and SRT<sup>\*3</sup> in the world<sup>\*4</sup>

Supports high bandwidth NDI for low latency transmission of high-quality 4K 60p/50p<sup>\*1</sup> video, and SRT<sup>\*3</sup> for high-quality and stable transmission, and also compatible with 12G-SDI output for use in a wide range of situations, from live streaming of events to studio production.

### Supports a wide variety of IP transmission protocols, including NDI<sup>\*2</sup>, NDI|HX<sup>\*5</sup>, and SRT<sup>\*3</sup>

High bandwidth NDI that can transmit 4K video at speeds of up to 250 Mbps and full HD video up to 100 Mbps is included to provide high-quality low latency live video transmission with a single LAN cable. High efficiency low bandwidth NDI|HX is also included to enable video transmission at low bitrates. SRT<sup>\*3</sup> is also supported to maintain stability while transmitting high-quality video, even in unstable network environments. RTMP/RTMPS<sup>\*6</sup> provides direct streaming to live broadcasting services such as YouTube Live and Facebook Live from the camera.

### Supports 4K 60p/50p<sup>\*1</sup> shooting and 12G-SDI output

Supports 4K 60p/50p<sup>\*1</sup> video at 3840 x 2160 to provide smooth and high-quality shooting of moving images, and a wide variety of output interfaces such as 12G-SDI, 3G-SDI, HDMI, and IP.

### Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom

A wide angle lens with a horizontal angle of view of 74.1 degrees enables a wide area to be shot from a limited installation space, and 24x optical zoom maintains high image quality at high zoom ratios. This allows shooting in large indoor spaces.

<sup>\*1</sup>: Actual output format is UHD (3840 x 2160) 59.94p/50p. <sup>\*2</sup>: NDI: High bandwidth NDI <sup>\*3</sup>: SRT: Secure Reliable Transport <sup>\*4</sup>: January 2020, based on Panasonic findings. <sup>\*5</sup>: NDI|HX: High efficiency low bandwidth NDI|HX. <sup>\*6</sup>: RTMP: Real-Time Messaging Protocol, RTMPS: Real-Time Messaging Protocol Secure



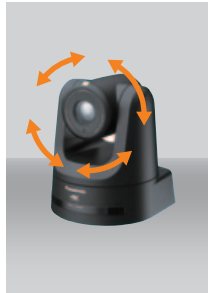
# 4K Integrated Camera AW-UE100W/K

## Supports FreeD\*<sup>1</sup> for building AR/VR\*<sup>2</sup> systems

FreeD\*<sup>1</sup> command output enables connection with AR/VR\*<sup>2</sup> systems. This allows the camera tracking information (pan/tilt/zoom/focus/iris) to be output together with a synchronization signal to easily build systems without an encoder.

## Adopts new mechanical pan/tilt for improved responsiveness and quietness

The inclusion of a Direct Drive mechanism improves the responsiveness of pan/tilt and quietness during pan/tilt operations. In addition to Optical Image Stabilization (OIS), Electronic Image Stabilization (EIS) has been added for the roll direction. This provides stable video shooting even at locations utilizing robotics and rail systems, etc.



\*1: FreeD is a protocol widely used in virtual studio systems for transmitting camera tracking information. \*2: AR: Augmented Reality, VR: Virtual Reality.

### <Rear View>



### <Specifications>

(Preliminary)

General	
Power Requirements	Main unit: DC 12 V $\pm$ 10% (10.8 V to 13.2 V), AC adaptor: AC 100 V to 240 V
PoE++	Complies with IEEE802.3bt: DC 42 V to 57 V (camera end) (supports software authentication (LLDP communication))
Current Consumption	Main unit: 3.0 A (DC jack input), 1.2 A (PoE++ power supply), AC adaptor (included): 3.0 A
Weight	Approx. 2.2 kg (4.85lbs) (excluding cable cover, direct ceiling mount bracket) Approx. 2.3 kg (5.07lbs) (excluding direct ceiling mount bracket)
Dimensions	169.2 mm x 170.6 mm x 204.6 mm (6.66 inches x 6.72 inches x 8.06 inches) (excluding protrusions, cable cover, and direct ceiling mount bracket)
Camera Unit	
Image Sensor	1/2.5-type 4K MOS x 1
Lens	Electric powered 24x optical zoom F1.8 to F4.0 (f = 4.12 mm to 98.9 mm, converted to 35 mm: 25.0 mm to 600.0 mm) i.Zoom (UHD: 28x, FHD: 36x) (*switches from optical 24x $\Rightarrow$ i.Zoom $\Rightarrow$ digital zoom)
Field of View Range	Horizontal field of view: 74.1° (wide) to 3.3° (tele), vertical field of view: 46.0° (wide) to 1.9° (tele), diagonal field of view: 81.8° (wide) to 3.8° (tele)
Horizontal Resolution	1,400 TV lines Typ (center area)
Output Formats	[4K formats] 2160/59.94p, 2160/50p, 2160/29.97p (native), 2160/25p (native), 2160/24p (native), 2160/23.98p (native) [HD formats] 1080/59.94p, 1080/50p, 1080/29.97p (native), 1080/29.97PsF, 1080/25p (native), 1080/25PsF, 1080/23.98p over 59.94i, 1080/24p (native), 1080/23.98p (native), 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Output	
HDMI	HDMI 2.0 connector 4:2:2/10 bit* <sup>3,4</sup>
12G-SDI OUT	SMPT2082-1, SMPT292 compliant/75 $\Omega$ (BNC x 1)* <sup>5</sup>
3G-SDI OUT	SMPT292/75 $\Omega$ (BNC x 1)* <sup>5</sup>
Input/Output	
LAN	LAN for IP control and video transmission/PoE++ terminal (RJ-45)
RS-422	CONTROL IN RS422A (RJ-45)
Mic/Line Input	Supported (SDI/HDMI/IP), AAC compatible (IP only) $\varnothing$ 3.5 mm stereo mini jack <ul style="list-style-type: none"> <li>■ For mic input, input level: -40 dBV (0 dB = 1 V/Pa, 1 kHz) plug-in power compatible, supply voltage: 2.5 V <math>\pm</math>0.5 V</li> <li>■ For line input, input level: -10 dBV    ■ Input volume variable range: -36 dB to 12 dB (3 dB step)</li> <li>■ embedded audio output level: -12 dBFS    ■ Sampling frequency: 48 kHz</li> <li>■ Quantified bit count: 24bit (SDI, HDMI), 16bit (IP)</li> </ul>
Pan Tilt Head Unit	
Panning Range	$\pm$ 175°
Tilting Range	-30° to 210°* <sup>6</sup>
IP Streaming	
Video Compression Format	JPEG (MJPEG), H.264, H.265, NDI HX, High bandwidth NDI
Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180
New Functions	
NDI Support	NDI, NDI HX: Included as standard* <sup>7,8</sup>
Mechanical Pan/Tilt	Direct Drive system

\*Product specifications are subject to change without notice for reasons of improvement, etc.

\*3: HDCP not supported. \*4: VIERA Link not supported. \*5: Level-A/Level-B supported. \*6: The main unit may appear in video, depending on the pan/tilt position. \*7: High bandwidth NDI and high efficiency low bandwidth NDI|HX cannot be used simultaneously. \*8: NDI: High bandwidth NDI, NDI|HX: High efficiency low bandwidth NDI|HX.

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# Panasonic®

Panasonic Corporation  
Connected Solutions Company

2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan



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



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