

AW-UE100

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



KEY FEATURES

- Supports a wide variety of IP transmission protocols, including NDI*2, NDI|HX, and SRT*3
- Supports 4K 60p/50p*1 shooting and 12G-SDI output
- Includes a wide-angle lens with a 74.1° field of view and 24x optical zoom
- Supports FreeD*7 for building AR/VR systems
- Adopts new mechanical pan/tilt for improved responsiveness and quietness

The AW-UE100 is the newest addition to Panasonic's comprehensive professional PTZ camera lineup. The AW-UE100 integrated pan/tilt/zoom camera supports a wide variety of IP transmission protocols, including high-bandwidth NDI*2, high-efficiency NDI|HX and Secure Reliable Transport (SRT)*3. This new PTZ camera has a newly-designed direct drive motor for smooth pan and tilt movement and offers installation flexibility, low noise and high-resolution image capture. It is ideal for high-quality live remote and studio production for broadcast, staging, corporate and sports events.

The AW-UE100 features a 1/2.5-type 4K MOS sensor to produce stunning UHD 4K 60p/50p*1 video and offers a wide variety of interfaces including 12G-SDI, 3G-SDI, HDMI and IP. Suitable for capturing images in tight spaces to large venues, the UE100 has exceptional capabilities. A wide-angle lens with a horizontal view angle of 74.1 degrees enables a wide area to be shot from a limited installation space, and its 24x optical zoom maintains high image quality at high zoom ratios, permitting shooting in large indoor spaces.

Download the PTZ Angle of View & Object Distance calculator

Supports a wide variety of IP transmission protocols, including NDI*², NDI|HX*⁵, and SRT*³

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*³ is also supported to maintain stability while transmitting high-quality video, even in unstable network environments. RTMP/RTMPS*⁶ provides direct streaming to live broadcasting services such as YouTube Live and Facebook Live from the camera.

Supports 4K 60p/50p*¹ shooting and 12G-SDI output

Supports 4K 60p/50p*¹ 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.

Supports FreeD*⁷ for building AR/VR*⁸ systems

FreeD*⁷ command output enables connection with AR/VR*⁸ 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.



UE100 Webinar

Rear image

25/06/20

*1: Actual output format is UHD (3840 x 2160) 59.94p/50p.

*2: NDI: High bandwidth NDI

*3: SRT: Secure Reliable Transport

*4: January 2020, based on Panasonic findings.

*5: NDI|HX: High efficiency low bandwidth NDI|HX.

*6: RTMP: Real-Time Messaging Protocol, RTMPS: Real-Time Messaging Protocol Secure

*7: FreeD is a protocol widely used in virtual studio systems for transmitting camera tracking information.

*8: AR: Augmented Reality, VR: Virtual Reality



SPECIFICATIONS

Power Requirements	Main unit: DC 12 V±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)
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 i.Zoom 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
HDMI	HDMI 2.0 connector 4:2:2/10 bit*3*4
12G-SDI OUT	SMPTE2082-1, SMPTE292 compliant/75 Ω (BNC x 1)*5
3G-SDI OUT	SMPTE292/75 Ω (BNC x 1)*5
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) O3.5 mm stereo mini jack For mic input, input level: -40 dBV (0 dB = 1 V/Pa, 1 kHz) plug-in power compatible, supply voltage: 2.5 V ±0.5 V For line input, input level: -10 dBV Input volume variable range: -36 dB to 12 dB (3 dB step) embedded audio output level: -12 dBFS Sampling frequency: 48 kHz Quantified bit count: 24bit (SDI, HDMI), 16bit (IP)
Panning Range	±175°
Tilting Range	-30° to 210°*6
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
NDI Support	NDI, NDI HX: Included as standard*7*8
Mechanical Pan/Tilt	Direct Drive system
Note	*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. *NDI and NDI HX, a technology of NewTek, Inc. NDI and NDI HX are registered trademarks of NewTek, Inc.* The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.* "YouTube" and the "YouTube logo" are registered trademarks of Google Inc.* "Facebook" is a registered trademark of Facebook, Inc.

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