Panasonic CONNECT

15th — PTZ Camera 15th ANNIVERSARY

4K PTZ Camera for an era of enhanced creativity and the pursuit of visual expression.

Uncompromising shooting performance and operability.

In addition to the high sensitivity F14/2000 lx and the latest-generation image processing, the AW-UE160 features a phase detection auto focus (PDAF)*. The new PTZ has a variety of functions that enable you to carry out high-precision video production.
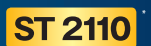
*Available in a future firmware update.

Realize next-generation video production with various shooting methods and functions.

The AW-UE160 supports return input and high-speed output, which is vital for building a combined camera system. This camera is the first to support the ST 2110 standard[*1] and JPEG XS[*1*2] and 5G mobile router (USB tethering compatible) - the standard for IP transmission in the broadcasting industry.

*1 Activation with the AW-SFU60 is required. *2 Planned for future support.

Ease of use and versatility reduces stress of shooting on-site.

Support for a variety of I/Fs and protocols reduces the burden of introducing the camera into existing systems. Updated scene files, color matrix control and Panasonic's free software and Remote Operation Panel (ROP) for batch management of multiple cameras makes mixed operation with system cameras even easier.

4K PROFESSIONAL HDR | NDI® & NDI®|HX Built-in | SRT ALLIANCE SECURE RELIABLE TRANSPORT | HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE | ST 2110*

* Separately sold software key AW-SFU60 (released at same time as AW-UE160) is required.

The latest features for next-generation video production.

High sensitivity F14/2000 lx*1

Produce high-quality images - even in dark conditions - with system camera-level high sensitivity.

*1 When use "Low Light" mode. "Normal" mode is F11/2,000lx.

Newly developed image processing engine

With the latest processing engine, improved S/N is realized processing of high pixel video data.

New Image Phase Detection Auto Focus (PDAF)*

The camera detects phase differences and focuses on moving subjects with high speed and precision.

* Available in a future firmware update.

Compact body with impressive PTZ mechanisms

Silent operation* and high static accuracy add to your high-quality productions.

* NC35 or less (NC25 or less when pan/tilt is stationary)

2x high-speed shooting

Smooth and beautiful slow-motion video can be captured to focus on key elements, such as sports and Esports moments.

Other features

- Cropping (+ Zoom) function
- Moiré reduction (with optical low-pass filter)
- HDR/SDR (HLG/BT.2020 compatible, SDR/BT.709 compatible)
- Hybrid image stabilization with 2-axis O.I.S. and roll direction correction (E.I.S.)
- Updated scene file functions
- Renewed color matrix control
- Horizontal level gauge display function, waveform display function, etc.

Improved scalability and convenience

Supports ST 2110 standard*1 and JPEG XS*1*2 and various I/Fs and protocols. Simultaneous output from multiple terminals (simultaneous operation).

*1 Activation with the AW-SFU60 is required.
*2 Planned for future support.

I/F: Fiber (SFP+), 12G-SDI, 2 x 3G-SDI, HDMI, 2 x XLR jacks, USB 3.0 (5G mobile router with USB tethering support), G/L IN
Protocols: SMPTE ST 2110*1 NDI ® *2*3, NDI ®|HX*2*3, SRT, FreeD, RTMP/RTMPS, etc.
*1 Activation with the AW-SFU60 is required.
*2 NDI® is a new live video production workflow support protocol developed by NewTek, Inc.
*3 NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.

Tally lamps equipped on the front and rear

Quickly check the status of the camera from any direction.Tally lamps can be lit in red, green and yellow.

Return input function*

Use as a return video or prompter so performers can check the video/broadcast on the spot.
* Available only when operating SMPTE ST 2110.

Accessories

SMPTE ST 2110/JPEG XS*
Supported Operational Software Key

NEW **AW-SFU60**
* Planned for future support

Remote camera controller

AW-RP150* / AW-RP60*
* Only IP connection is available with AW-UE160W/K.

Remote Operation Panel*

AK-HRP1015 / AK-HRP1010 / AK-HRP250G
* Only IP connection is available with AW-UE160W/K.

Auto Tracking Software   **Visual Preset Software**

AW-SF100/200   **AW-SF300**

AW-UE160W/K Specifications*

* This specification is only a partial list, please check our website for details.

Comprehensive	
Power Requirements	12VDC±10% (10.8V to 13.2V)
PoE++	IEEE802.3bt standard: DC 42V to 57V (Software authentication (LLDP) is supported).
Current Consumption	5.0A (XLR Input), 1.5A (PoE++ power supply)
Mass	Approx. 4.6kg (10.14lbs) (excluding mount bracket)
Dimensions (W x H x D)	213.0 mm × 277.0 mm × 240.0 mm(8.39 inches × 10.91 inches × 9.45 inches) [excluding protrusions, ceiling mount bracket]

Camera Unit		
Image Sensors		1-type (1") 4K MOS×1 (Effective size) Effective Pixels: Approx.9,620,000 pixels
Lens		Motorized 20x optical zoom F2.8 to F4.5 f=8.8 mm (11/32 inches) to 176.0 mm (6-15/16 inches), 35 mm (1-3/8 inches) equivalent: 24.5 mm (31/32 inches) to 490.0 mm (19-9/32 inches)
Zoom Magnification		・Optical zoom: 20x ・i.Zoom: UHD 24x, FHD 32x ・Digital extender zoom: 1.4x, 2x
Angle of View Range		Horizontal: 75.1°(wide) – 4.0°(tele) Vertical: 46.7°(wide) – 2.3°(tele) Diagonal: 82.8°(wide) – 4.6°(tele)
Horizontal Resolution		1,600 TV Lines Typ (center area, UHD Mode, Wide)
Output Format (UHD/FHD SDI and HDMI, Fiber (video only), ST 2110*1)	4K*2	2160/59.94p, 2160/50p, 2160/29.97p (Native), 2160/25p (Native), 2160/24p(Native), 2160/23.98p (Native)
	HD	1080/119.88p (SDI and HDMI only)*3, 1080/100p (SDI and HDMI only)*3, 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p (Native), 1080/25p (Native), 1080/24p (Native), 1080/23.98 p(Native), 1080/59.94i (SDI, Fiber only), 1080/50i (SDI, Fiber only), 720/59.94p, 720/50p

Input terminal	
G/L IN	G/L IN (BNC)*4
AUDIO INPUT1/2	XLR (2ch) or Mic/Line input compatible (SDI/HDMI/IP) AAC compatible (IP only) 3-pin XLR female connectors, 2ch, balanced input

Output	
HDMI	HDMI 2.0 connector, 4:2:2/10bit*5
12G SDI OUT*6	SMPTE2082-1, SMPTE424M/SMPTE292M/75Ω(BNC×1)
3G SDI OUT1/2/PM*6	SMPTE424M/SMPTE292M/75Ω(BNC×1)
SFP+	SFP+ compliant (Single Fiber)*7
USB	USB3.0 HOST(5G mobile router (USB tethering support))*8

Input/output terminal	
LAN	LAN connector for IP control (RJ-45)
RS-422	CONTROL IN RS422A (RJ-45)
SFP+(ST 2110*1)	Compatible protocol:–ST 2110–10/–20/–21/–30, –PTP ST2059–2, –NMOS IS-04/IS-05 Number of outputs: Video x 3 (Main line, Crop, Monitor), audio x 2 Number of inputs: Video x1 (RETURN) Video format: FHD*9

JPEG (MJPEG), H.264, H.265	
Image resolution	3840x2160, 1920x1080, 1280x720, 640x360

NDI|HX Version 2、High Bandwidth NDI	
Image resolution	3840x2160, 1920x1080, 1280x720

*1 Separately sold software key AW-SFU60G (released at same time as AW-UE160) is required. *2 4K compressed output using JPEG XS will be supported with a firmware update. *3 1080/119.88p and 1080/100p use two 3G/SDI OUTPUT1/2 systems. No output from 12G/SDI. *4 BBS (Black Burst Sync) and 3-value synchronization compatible. *5 HDCP and Viera Link are not supported. *6 Compatible with Level-A/Level-B. *7 Optical signal input not supported. *8 Compatible with recommended products only. Please ask your local sales company. *9 Follows the system format.

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

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UKAS MANAGEMENT SYSTEMS

Factories of Panasonic Connect Co., Ltd. have received ISO14001:2015-the Environmental Management System certification. (Except for 3rd party's peripherals.)