



Caméra PTZ 4K : créativité et excellence.

AW-UE160

La caméra PTZ 4K AW-UE160 est dotée d'un nouveau capteur MOS 4K d'un pouce qui offre la sensibilité la plus élevée de toute la gamme PTZ de Panasonic. Les équipes de production qui tournent dans une salle de concert ou une église peuvent facilement capturer des images claires, même dans les conditions d'éclairage les plus difficiles. Pendant ce temps, le nouveau filtre passe-bas optique de l'UE160 réduit l'effet de moiré pour une qualité d'image plus claire lors de la prise de vue contre un mur LED, ce qui est particulièrement important pour les environnements de location et de mise en scène ou de culte. Sa fréquence d'images haute vitesse aidera les diffuseurs sportifs à capturer des prises de vue au ralenti en HD pour les rediffusions, tandis que l'intégration transparente avec le système de caméra robotique apporte des mouvements de style diffusion en direct au PTZ, résultant en une production vidéo dynamique et très engageante.

Key Features

Performances des captations et opérabilité sans compromis

Le filtre optique passe-bas réduit considérablement

Capteur 4K nouvellement développé offrant une sensibilité supérieure

Autofocus amélioré grâce à une technologie avancée

Prise en charge SMPTE 2110 avec achat d'une clé logicielle supplémentaire

Réalisez une production vidéo de nouvelle génération avec diverses méthodes et fonctions de prise de vue.

La facilité d'utilisation et la polyvalence réduisent le stress de la prise de vue.





AW-UE160

<https://eu.connect.panasonic.com/fr/fr/products/broadcast-proav/aw-ue160-serisi>

Output Format (UHD/FHD SDI)	4K2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. HD1080/119.88p*, 1080/100p*, 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p*1080/119.88p and 1080/100p use two 3G/SDI OUTPUT1/2 channels.*No output from 12G/SDI.
Output Format (HDMI)	4K 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. HD 1080/119.88p, 1080/100p, 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 720/59.94p, 720/50p
Output Format (Fiber(Only Video))	4K 2160/59.94p, 2160/50p, 2160/29.97p(Native), 2160/25p(Native), 2160/24p(Native), 2160/23.98p(Native) *2160/60p will be supported in version upgrade. HD 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Supported Protocol	<ul style="list-style-type: none"> • Network Protocol: ICMP, ARP, GARP, MLD • Transmission Protocol: TCP/IP, UDP/IP • Application Protocol: <ul style="list-style-type: none"> IPv4 : HTTP, HTTPS, DNS, NTP, DHCPv6, MDNS, SNMP, 802.1X IPv6 : HTTP, HTTPS, DNS, NTP, DHCPv4, MDNS, SNMP, 802.1X • Video Streaming Protocol: <ul style="list-style-type: none"> RTP/RTCP over RTSP, RTMP, RTMPS, SRT, MPEG2-TS over UDP, NDI HX version 2, High bandwidth NDI • External Device Cooperation Protocol: FreeD, TSL5.0, SNMP
Current Consumption	5.0 A (XLR IN connector), 1.5A (PoE++ power supply)
Power Requirements	12VDC±10%(10.8V to 13.2V)
Ambient Operating Temperature	0 °C to +40 °C (32 °F to +104 °F)
PoE++	IEEE802.3bt standard :DC 42 V to 57V (Camera Input)*Limited in function when PoE used.(Software authentication (LLDP) is supported))
Storage Temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Ambient Operating Humidity	20 % to 90 % (no condensation)
Mass	Approx. 4.6kg (10.14lbs) (excluding mount bracket)
Finish	AW-UE160W : Pearl White AW-UE160K : Black
Controller Supported	AW-RP150 , AW-RP60 , AK-HRP1010 , AK-HRP1015 , AK-HRP250 *IP only. Other ROP will be compatible in the future. **Digext Certification operation of AW-RP150 and AW-RP60 are not guaranteed.
Lens	Motorized Optical 20x Zoom F2.8 to F4.5(f=8.8 mm to 176.0 mm, 35mm equivalent:24.5 mm to 490.0 mm)
Imaging Sensors	1-type (1")* 4K MOSx1 *Effective size Effective Pixels: Approx. 9,620,000 pixels
Camera Unit	-
Optical Filter	Through, 1/4, 1/16, 1/64 *equipped with Low pass filter(Through is used as "night mode")

Focus	Switching between auto and manual
Conversion	Not Supported
Lens	
Angle of View	Horizontal: 75.1°(wide) to 4.0°(tele)
Range	Vertical: 46.7°(wide) to 2.3°(tele)
	Diagonal: 82.8°(wide) to 4.6°(tele)
Focus Distance	Entire zooming range: 1000 mm, Wide end: 100 mm
Standard Sensitivity	F1 1/2,000lux (Normal), F1 4/2,000lux (Low Light)
Color	1MOS
Separation	
Optical Systems	
Horizontal Resolution	1,600 TV Typ (center area, UHD Mode, Wide)
Gain Selection	Auto, -6dB to 12dB *1 dB step increments can be set.
Frame Mix	Auto, 0dB, 6dB, 12dB, 18dB, 24dB*If format is set in 1080/119.88p, 1080/100p, 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/25p, it cannot be set.
Electronic Shutter Speed	60p: 1/60, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 59.94p/59.94i: 1/60, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 50p/50i: 1/60, 1/100, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 29.97p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 25p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 23.98p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 24p: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 59.94p- 120fps: 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000 50p- 100fps: 1/125, 1/250, 1/500, 1/1,000, 1/1,500, 1/2,000
Synchro Scan	60p: 60.00Hz to 7,200Hz 59.94p/59.94i: 60.00Hz to 7,200Hz 50p/50i: 50.00Hz to 7,200Hz 29.97p: 30.00Hz to 7,200Hz 25p: 25.00Hz to 7,200Hz 23.98p: 24.00Hz to 7,200Hz 59.94p- 120fps: 120Hz to 7,200Hz 50p- 100fps: 100Hz to 7,200Hz
White Balance	ATW, 3200K, 5600K AWB-A, AWB-B VAR (selectable between 2000 K and 15000 K by designating a value) *ATW Speed 3-stage variables.
Gamma	HD / NORMAL / CINEMA1 / CINEMA2 *HLG is set in other menuMASTER GAMMA (0.15~0.75)R GAMMA (-75~+75)B GAMMA (-75~+75) R BLACK GAMMA (-20~+20)B BLACK GAMMA (-20~+20)
Scene File	Scene 1 to 8
Chroma Amount Variability	OFF, -100% to 40%
HDMI	HDMI 2.0 connector 4:2:2/10bit *HDCP is not supported. *Viera Link is not supported.

Synchronization	Internal/External synchronization (BBS/Tri-level sync)
System	
Input	DC 12 V IN, G/L IN(BNC)
G/L In	BBS (Black Burst Sync), tri-level sync supported)
Output	-
AUDIO INPUT	XLR(2ch) or MIC/LINE Input compatibles /HDMI /IP)AAC compatibility (compatible with IP only)3-pin XLR female connectors, 2ch, balanced input · During MIC input Input level: -50dBu or -60dBu/-40dBu(0 dB=1 V/Pa, 1 kHz) Phantom power compatible, Supply voltage:47 V±2 V Input impedance: Approx. 10kΩ · During LINE input Input level : 0 dBu (or +4dBu/-20dBu) Input impedance: Approx. 10kΩ · Input volume variable range: -40 dB ~ 0dB ~ +20 dB (1 dBstep) · Embedded audio output level: -12dBFS/-18dBFS/-20dBFS · Sampling frequency: 48 kHz · Quantization bit rate : 24 bit(SDI, HDMI), 16bit(IP)
1/2	
12G SDI OUT	SMPTTE2082-1, SMPTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
3G SDI OUT1	SMPTTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
3G SDI OUT2/PM	SMPTTE424M /SMPTE292M / 75 Ω(BNC×1) *Level-A/Level-B supported
SFP+	SFP+ standard (Single Fiber) *This unit does not support input by optical signals
LAN	LAN connector for IP control (RJ-45)
USB	USB3.0 HOST(5G mobile router with USB tethering support) *Limited power supply to USB Wifi dongle.
RS-422	CONTROL IN RS422A (RJ-45)
Input/Output	-
IP Connecting	· If you have PoE++ ethernet hub
Cable	LAN cable *1(category 5e or above, straight cable) max. 100 m (328 ft) · If you don't have PoE++ ethernet hub LAN cable *1(category 5e or above, straight cable) max. 100 m (328 ft) *1 STP(Shielded Twisted Pair) is recommended *2 Category 6 or above is used for 4K video transmission.
Pan-tilt Head Control	-
AW Protocol Connecting	LAN cable*(category 5e or above, straight cable) max. 1000 m (3280 ft) *STP (Shielded Twisted Pair) is recommended
Cable	
Pan/Tilt Operation	Speed range: 0.08 °/s ~180°/s(Normal mode)
Speed	3 speed modes installed: Normal: ~60°/s, Fast1: ~90°/s, Fast2: ~180°/s
Quietness	NC35 or less *When standing still, NC25 or less
Tilting Range	-30°~ 210° *Depending on the pan or tilt position, the camera may be reflected in the image.
Panning Range	±175°
Pan-Tilt Head Unit	-
Installation Method	Stand-alone (Desktop) or suspended (Hanging) *To ensure safety, the unit must be secured using the mount bracket supplied.
Windows	Windows®10 Microsoft Edge Google Chrome
Supported operating systems and web browsers	-
Image Resolution	3840x2160, 1920x1080, 1280x720, 640x360
Mac	macOS 10.13 / Safari 13 macOS 10.14 / Safari 13 macOS 10.15 / Safari 13 macOS 10.15 / Google Chrome
Android	Android OS Google Chrome
IP Streaming	-
Image Streaming Mode	JPEG(MJPEG), H.264, H.265, NDI HX Ver2, High Bandwidth NDI
Image Transmission setting (JPEG)	· Frame rate : Max. 30fps *No bit rate specified *JPEG and H.264, JPEG and H.265 simultaneous operation depends on bit rate · Image quality: Fine/Normal

Image Transmission Setting (H.264)	<ul style="list-style-type: none"> Transmission Type : Unicast port (AUTO), Unicast port (MANUAL), Multicast port Transmission mode :CBR, VBR Frame Rate <ul style="list-style-type: none"> [60Hz] <ul style="list-style-type: none"> 5fps/15fps/30fps/60fps (UHD: 30fps,60fps) [50Hz] <ul style="list-style-type: none"> 5fps/12.5fps/25fps/50fps (UHD: 25fps,50fps) Max to Min Bit Rate: <ul style="list-style-type: none"> 2048kbps/4096kbps/8192kbps/10240kbps/12288kbps/14336kbps/20480kbps/24576kbps/51200kbps/76800kbps
iPhone / iPad / iPod touch	iOS, Safari, iPadOS
Image Transmission Setting (H.265)	<ul style="list-style-type: none"> Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Transmission Mode: CBR,VBR Frame Rate <ul style="list-style-type: none"> [60Hz] <ul style="list-style-type: none"> 30fps / 60fps [50Hz] <ul style="list-style-type: none"> 25fps / 25fps Max to Min Bit Rate: <ul style="list-style-type: none"> 2048kbps/4096kbps/8192kbps/10240kbps/12288kbps/14336kbps/20480kbps/24576kbps/51200kbps/76800kbps
Audio Compression Type	AAC-LC, 48kHz/16bit/2ch
Output Format	<ul style="list-style-type: none"> Video Format (Full x1, MONI x1.Crop x1, all of these same format) 1080/60p, 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native), 1080/24p, 1080/23.98p(Native), 720/59.94p, 50p Audio Specification INPUT1/INPUT2 PCM/48kHz/24bit/1 ch x2
NDI (High Bandwidth NDI,NDI HX Ver.2)	-
Output Format (High bandwidth NDI)	<ul style="list-style-type: none"> 4K <ul style="list-style-type: none"> 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p HD <ul style="list-style-type: none"> 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p
Image Resolution (NDI HX Ver.2)	3840x2160, 1920x1080, 1280x720
Image Streaming Setting	<ul style="list-style-type: none"> High Bandwidth NDI <ul style="list-style-type: none"> Transmission Type: TCP /UDP, Unicast/Multicast Bit Rate: Max. 250Mbps NDI HX version.2: <ul style="list-style-type: none"> Transmission Type: TCP/UDP, Unicast/Multicast Frame Rate: <ul style="list-style-type: none"> [60Hz] 5fps/15fps/30fps/60fps [50Hz] 5fps/12.5fps/25fps/50fps Max Bit Rate: <ul style="list-style-type: none"> 512kbps/768kbps/1024kbps/1536kbps/2048kbps/3072kbps/4096kbps /6144kbps/8192kbps/10240kbps/12288kbps/14336kbps/16384kbps/20480kbps/24576kbps
Audio Compression Type 2	High Bandwidth NDI: AAC, 48kHz, 2ch NDI HX Ver.2: AAC-LC, 48kHz/16bit/2ch
Number of Output (TX)	<ul style="list-style-type: none"> Video: 3 line (Full x1, MONI x1.Crop x1) Audio: 2 line Auxiliary data: No output
Number of Input (RX)	<ul style="list-style-type: none"> Video: 1 line(RETURN) *Out from 3G SDI OUT2(Video is changed in the OSD menu) Audio: No input Auxiliary data: No input
Optional Accessories	-
Cropping	Select from 3 types of images from 3G/SDI OUTPUT2, Crop Zoom available
Image Stabilization	<ul style="list-style-type: none"> Hybrid method of OIS 2-axis + Roll direction correction MENU switching: <ul style="list-style-type: none"> select between OFF / O.I.S.(STABLE) / O.I.S.(PAN/TILT) / HYBRID(STABLE) / HYBRID(PAN/TILT)
Power LED	ON/OFF control

Tripod Screw Penetration Measures	Possible
Privacy Mode	The lens surface faces downward when standing by (ON/OFF)
Input Format	Video Format (Full x1, MONI x1.Crop x1, all of these same format)1080/60p, 1080/59.94i, 50i, 1080/29.97p(Native), 25p(Native) 1080/24p, 1080/23.98p(Native), 720/59.94p, 50p
New Feature	-
HDR/SDR	HLG/BT.2020 compatible, SDR/BT.709 compatible
F Number	Displayed on the AW-RP150 and AW-RP60 sides
Display	
NDI	High Bandwidth NDI, NDI HX Ver.2 included as standard
IP menu display	supported *Non-synchronous with SDI-OUT
VR (FreeD) (IP/RS422)	supported
Yellow Tally	supported
PTP	supported
5G/WiFi 6	Compatible with recommended products only
WFM display	Output with video superimposed from 3G/SDI OUTPUT2
Return Video Output	Output return video input from ST 2110 via SDI_OUT2
Horizontal Level Gauge	ON/OFF control in OSD MENU or Web GUI
Wireless Remote Controller	AW-RM50AG (Size "AA" dry battery x 2, obtained separately)
Dimensions (W x H x D)	213.0 mm x 277.0 mm x 240.0 mm (8.39inches x 10.91 inches x 9.45inches) [excluding protrusions, cable cover, ceiling mount bracket]
Supported Format	ST 2110: 10/20/21/30 PTP: ST 2059-2 NMOS: IS-04/IS-05
Output Format (ST 2110)	HD 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p(Native), 1080/25p(Native), 1080/24p(Native), 1080/23.98p(Native), 720/59.94p, 720/50p
SFP+(ST 2110)	Compatible protocol: -ST 2110-10/-20/-21/-30 -PTP ST 2059-2 -NMOS IS-04/IS-05 Output number: Video x3 (Full, Crop, Monitor), Audio x2 Input number: Video x1 (RETURN) Video format: FHD *Same as system format
ST 2110	
Zoom	• Optical Zoom: 20x• i.Zoom: UHD 24x, FHD 32x• Digital Extender Zoom: 1.4x, x