

AW-HE145

HD remote camera that enables high-quality video production even in dark environments.



KEY FEATURES

- High sensitivity achieved with the 1-type large-sized sensor
- Optical 20x zoom/horizontal 75.1° wide-angle shooting
- Pan/tilt performance that achieves smooth and accurate operation
- Enables high-quality video production even in dark environments
- SRT support for stable video transmission

High-Quality Full-HD 60p Shooting

Full-HD output and 59.94p shooting achieve extremely smooth video, even in live sports and other environments containing rapid movement.



SRT

SECURE
RELIABLE
TRANSPORT

SRT support for stable video transmission over public lines

SRT, a next-generation video transmission protocol with strong security suitable for unstable network environments, is supported.

Multiple Interfaces Support

A wide range of outputs are supported: 3G-SDI, HDMI and IP.



Useful Software for Simplified Workflow

Compatible with a wide range of software, including the PTZ Control Center and Auto Tracking Software. This software will simplify the workflow of the PTZ camera shooting and reduces the burden of operation and management.



SPECIFICATIONS

Power Requirements	12 V DC (10.8 V to 13.2 V), DC 42 V to 57 V (Camera Input, PoE++ power supply)
Current Consumption	4.0 A (XLR IN connector), 1.2 A (PoE++ power supply)
Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Ambient Operating Humidity	20 % to 90 % (no condensation)
Storage Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Mass	Approx. 4.1 kg (9.04 lb) (excluding mount bracket)
Dimensions (W x H x D)	213 mm x 267 mm x 219 mm (8-3/8 inches x 10-1/2 inches x 8-5/8 inches) (excluding protrusions, direct ceiling mount bracket)
Finish	AW-HE145W: Pearl white AW-HE145K: Metallic Black
Controller Supported	AW-RP150, AW-RP60, AK-HRP1000GJ, AK-HRP1015GJ, AK-HRP250GJ*1
Imaging Sensors	1-type Full-HD MOSx1
Lens	Motorized Optical 20x 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	<ul style="list-style-type: none"> • Optical zoom: 20x • i.Zoom: FHD 32x • Digital zoom: 10x
Conversion Lens	Not supported
Angle of View Range	Horizontal angle of view: 75.1° (wide) to 4.0° (tele) Vertical angle of view: 46.7° (wide) to 2.3° (tele) Diagonal angle of view: 82.8° (wide) to 4.6° (tele)
Optical Filter	Through, 1/4, 1/16, 1/64, IR through (IR through is used as "Night mode")
Focus	Switching between auto and manual
Focus Distance	Entire zooming range: 1000 mm (3.3 ft) Wide end: 100 mm (0.33 ft)
Color Separation Optical System	1MOS
Standard Sensitivity	F9, 2000 lx (When normal mode is selected)
Minimum Illumination	2 lx (F2.8, 59.94p, 50IRE, 42 dB, without accumulation)
Horizontal Resolution	1000 TV lines Typ (Center area)
Gain Selection	Auto, 0 dB to 36 dB*2 Super Gain function equipped : +37 dB to 42 dB
Frame Mix*3	0 dB, 6 dB, 12 dB, 18 dB, 24 dB
Electronic Shutter Speed	59.94p/59.94i: 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 29.97p: 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 23.98p/24p: 1/24, 1/48, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 50p/50i: 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000 25p: 1/25, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000
Synchro Scan	59.94p/59.94i: 60.00 Hz to 7200 Hz 29.97p: 30.00 Hz to 7200 Hz 23.98p/24p: 24.00 Hz to 7200 Hz 50p/50i: 50.00 Hz to 7200 Hz 25p: 25.00 Hz to 7200 Hz
Gamma	HD / FILMLIKE1 / FILMLIKE2 / FILMLIKE3 / FILM REC / VIDEO REC / HLG
White Balance	ATW : 3200K, 5600K ATW Speed : Normal / Slow / Fast AWB : AWB-A / AWB-B VAR (selectable between 2000K and 15000K by designating a value)
Chroma Amount Variability	OFF, -99 % to 99 %

Scene File	Scene1, Scene2, Scene3, Scene4
Output Format	1080/59.94p, 1080/50p, 1080/29.97p*4, 1080/29.97PsF, 1080/25p*4, 1080/25PsF, 1080/23.98p*5, 1080/24p*4, 1080/23.98p*4, 1080/23.98PsF, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Input Connector	DC 12 V IN, G/L IN (BNC) • BBS (Black Burst Sync), tri-level sync supported
Video Output	HDMI HDMI 2.0 standard 4:2:2/10bit • HDCP is not supported. • Viera Link is not supported. 3G-SDI OUT SMPTE292 / 75 Ω (BNC x 1) • Level-A/Level-B supported
Input/Output Connector	LAN LAN connector for IP control (RJ-45) RS-422 CONTROL IN RS-422A (RJ-45) MIC/LINE input AAC compatible (compatible with IP only) ø 3.5 mm stereo mini jack Input impedance: Approx. 10 kΩ (unbalanced) • During MIC input Supported mic: Stereo mic (plug-in power, on/off switching via menu) Supply voltage: 2.5 V ± 0.5 V Mic input sensitivity: Approx. -40 dBV (0 dB=1 V/Pa, 1 kHz) • During LINE input Input level: Approx. -10 dBV
Camera/Pan-Tilt Head Control	IP connecting cable: LAN cable*6: (category 5e or above, straight cable), max. 100 m (328 ft) AW protocol connecting cable: LAN cable*6: (category 5e or above, straight cable), max. 1000 m (3280 ft)
Installation Method	Stand-alone (Desktop) or suspended (Hanging)*7
Pan/Tilt Operation Speed	Minimum speed 0.08°/s Maximum speed 60°/s or higher*8 • Maximum speed is 180°/s in high-speed mode
Panning Range	±175°
Tilting Range	-30° to 210°*9
Quietness	NC35 or less
Supported operating systems and web browsers	Windows Microsoft(R) Windows(R) 10 Windows(R) Internet Explorer(R) 11 (64-bit/32-bit) Microsoft Edge Google Chrome Mac MacOS v11.0.1 / Safari 14.01 MacOS v11.0.1 / Google Chrome MacOS V10.15 / Google Chrome MacOS V10.14 / Google Chrome iPhone / iPad iOS Google Chrome
Image Streaming Mode	JPEG (MJPEG), H.264, H.265
Image Transmission Setting	JPEG Frame Rate: Maximum 30 fps, Image quality (Fine / Normal) H.264 Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Transmission Priority: Constant bit rate, Frame rate, Best effort Frame Rate: [60Hz] 60fps / 30fps / 15fps / 5fps, [50Hz] 50fps / 25fps / 12.5fps / 5fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps

	<p>H.265 Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Frame Rate: [60Hz] 60fps / 30fps, [50Hz] 50fps / 25fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps</p> <p>NDI HX Transmission Type: Unicast port (AUTO), Unicast port (MANUAL), Multicast port Frame Rate: [60Hz] 60fps / 30fps / 15fps / 5fps, [50Hz] 50fps / 25fps / 12.5fps / 5fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps</p> <p>SRT H.264 Transmission Type: UDP Unicast Only Frame Rate: [60Hz] 60fps / 30fps / 15fps / 5fps, [50Hz] 50fps / 25fps / 12.5fps / 5fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps</p> <p>SRT H.265 Transmission Type: UDP Unicast Only Frame Rate: [60Hz] 60fps / 30fps / 15fps / 5fps, [50Hz] 50fps / 25fps / 12.5fps / 5fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps</p> <p>RTMP/RTMPS Frame Rate: [60Hz] 60fps / 30fps / 15fps / 5fps, [50Hz] 50fps / 25fps / 12.5fps / 5fps, [24Hz] 24fps Max Bit Rate: 24576kbps / 20480kbps / 16384kbps / 14336kbps / 12288kbps / 10240kbps / 8192kbps / 6144kbps / 4096kbps / 3072kbps / 2048kbps / 1536kbps / 1024kbps / 768kbps / 512kbps</p>
Audio Compression Type	AAC-LC, 48 kHz / 16 bit / 2ch
Supported Protocol	IPv6: TCP / IP, UDP / IP, HTTP, HTTPS, DNS, NTP, DHCPv6, MLD, ICMP, ARP, RTSP/RTP IPv4: TCP / IP, UDP / IP, HTTP, HTTPS, RTSP/RTP, DHCP, DNS, DDNS, NTP, IGMP, ICMP, ARP, RTMP, RTMPS, SRT, MPEG2-TS over UDP
NDI Support*11	NDI HX
Tally LED display color	red / green
Note	<p>*1: Available in September 2021. *2: 1 dB step increments can be set. *3: This cannot be configured when the format is 2160/29.97p, 2160/23.98p, 2160/24p, 2160/25p, 1080/29.97p, 1080/23.98p(59.94i), 1080/29.97PsF, 1080/23.98PsF, 1080/25p, 1080/25PsF. *4: Native output. *5: It denotes "1080/23.98p over 59.94i". *6: Use of an STP (shielded twisted pair) cable is recommended. *7: To ensure safety, the unit must be secured using the mount bracket supplied. *8: Quietness, stationary accuracy, etc., in high-speed mode may vary from normal mode. *9: Depending on the pan or tilt position, the camera may be reflected in the image. *10: Supported OS indicated are for browsers current as of October 2018. See Service and Support (https://www.pass.panasonic.co.jp/p2ui/guest/TopLogin.do?lang=en&category=pav) for the latest information on browser support. *11: Contact your local Panasonic vendor for further information.</p>

URL: <https://business.panasonic.co.uk/professional-camera/aw-he145>

CONTACT

Web: <https://business.panasonic.co.uk/professional-camera/contact-us>