



**30x Zoom and 1080 60p/50p\* 3G-SDI Supported PTZ Camera \*Actual output format is Full HD (1920 x 1080) 59.94p/50p.**

## **AW-HE42**

High-performance lenses and a variety of interfaces support a wide range of live video production environments

### **Key Features**

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High-resolution LENS enables superb picture quality with virtually lossless i.Zoom x30 (optical x20)

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Optical image stabilizer increases installation flexibility

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Various interface support including 3G-SDI and GENLOCK for Live & Production use

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IP streaming and control capability with PoE+ power supply support

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NDI|HX support ready\*\*Require purchasing a license from NewTek



A WIDER PERSPECTIVE.  
PRECISE CONTROL.

Un plus grand angle de vue et un contrôle précis. Le Panasonic AW-HE42 vous offre un meilleur contrôle de votre caméra et une plus grande perspective pour vos images en direct.



UNE PERSPECTIVE PLUS LARGE.  
UN CONTRÔLE PRÉCIS.

Un plus grand angle de vue et un contrôle précis. Le Panasonic AW-HE42 vous offre un meilleur contrôle de votre caméra et une plus grande perspective pour vos images en direct.



EINE BREITE PERSPEKTIVE.  
EINE PRÄZISE STEUERUNG.

Erhalten Sie einen Überblick in unerreichten Breiten - von Handhabung bis zu Live-Streams. Die Panasonic AW-HE42 garantiert Ihnen ein präzises Steuern Ihrer Kamera und eine breitere Perspektive für Ihre Bilder.



## AW-HE42

<https://eu.connect.panasonic.com/pl/en/products/broadcast-proav/aw-he42>

<b>General</b>	
<b>Power Requirements</b>	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)
<b>Current Consumption</b>	1.3 A (Supplied AC adaptor) 0.5 A (PoE+ power supply)
<b>Ambient Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Storage Temperature</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Mass</b>	Approx. 1.5 kg (3.30 lb)
<b>Dimensions (W x H x D) (mm)</b>	160 mm x 186 mm x 179 mm[excluding protrusions, direct ceiling mount bracket]
<b>Dimensions (W x H x D) (inch)</b>	6-5/16 inches x 7-41/128 inches x 7-3/64 inches[excluding protrusions, direct ceiling mount bracket]
<b>Finish</b>	[AW-HE42W] Pearl white [AW-HE42K] Metallic black
<b>Controller Supported*1</b>	AW-RP150G)*1, AW-RP50, AK-HRP1000G)*1, AK-HRP1005G)*1
<b>Input</b>	
<b>Power</b>	DC 12 V IN, PoE+ (IEEE802.3at standard)
<b>MIC/Line Input</b>	Stereo mini-jack (ø3.5 mm) Input impedance: Approx. 2 kOhm(unbalanced) [Mic input] Supported microphones: Stereo mic (plug-in power, on/off switching via menu) Supplied voltage: 2.5 V ± 0.5 V Mic input level: -60 dBV ± 3 dBV (0 dB=1 V/Pa, 1 kHz) [Line input] Input level: -10 dBV ± 3 dBV
<b>G/L In</b>	
<b>Output</b>	
<b>Video Output   HDMI</b>	HDMI connector * HDCP is not supported. * VIERA Link is not supported.
<b>Video output   3G/HD-SDI OUT</b>	Compliant with the SMPTE424/SMPTE292M standards/75 (BNC x 1)
<b>Input/Output</b>	
<b>Input/Output Connector   LAN</b>	LAN connector for IP control (RJ-45) Equipped with straight/crossover cable auto detection function
<b>Input/Output connector   RS232C</b>	Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)
<b>Input/Output connector   RS422</b>	CONTROL IN RS422A (RJ-45)
<b>INPUT/OUTPUT connector   USB</b>	Mini-B port
<b>INPUT/OUTPUT connector   SD card</b>	microSD card slot
<b>FUNCTIONS AND PERFORMANCE</b>	
<b>[Camera unit]</b>	
<b>Imaging Sensors</b>	1/2.3-type MOS
<b>Lens</b>	Motorized 20x zoom, F1.8 to F3.6 [f=4.08 mm (5/32 inches) to 81.6 mm (3-7/32 inches); 35 mm (1-3/8 inches) equivalent: 29.5 mm (1-5/32 inches)to 612.0 mm (24-3/32 inches)]
<b>Focus</b>	Switching between auto and manual
<b>Focus Distance</b>	Entire zooming range:1.5 m (4.92 ft) Wide end: 10 cm (0.33 ft)
<b>Color Separation Optical System</b>	On-chip color filter system
<b>Minimum illumination   59.94 Hz</b>	0.7 lx (50 IRE, F1.8, 48 dB, 1/60 without accumulation) 0.35 lx (50 IRE, F1.8, 48 dB, 1/30 with accumulation[Frame Mix 6 dB])
<b>Minimum illumination   50 Hz</b>	0.7 lx (50 IRE, F1.8, 48 dB, 1/50 without accumulation) 0.35 lx (50 IRE, F1.8, 48 dB, 1/25 with accumulation[Frame Mix 6 dB])
<b>Horizontal Resolution</b>	HD: 1000 TV lines Typ (Center area)
<b>Gain Selection*2</b>	Auto, 0 dB to 48 dB (3 dB step)
<b>Frame Mix*3</b>	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB
<b>ND Filter</b>	Auto*4, Through, 1/4, 1/16, 1/64
<b>Electronic shutter speed   During Full Auto</b>	1/60 to 1/2000 (Auto Slow Shutter: Off)[59.94 Hz] 1/30 to 1/2000 (Auto Slow Shutter: On) [59.94 Hz] 1/50 to 1/2000 (Auto Slow Shutter: Off)[50 Hz] 1/25 to 1/2000 (Auto Slow Shutter: On)[50 Hz]
<b>Electronic shutter speed   During Auto</b>	1/60 to 1/2000 [59.94 Hz] 1/50 to 1/2000 [50 Hz]

<b>Electronic shutter speed   During Manual</b>	1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz] 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50 Hz]
<b>Synchro Scan</b>	59.94 Hz : 59.94 Hz to 660.09 Hz (255 step) 50 Hz : 50.00 Hz to 570.12 Hz (255 step)
<b>Gamma</b>	Off, Normal (Low, Mid, High), Cinema
<b>White Balance</b>	ATW, AWB A, AWB B, ATW, 3200K,5600K, VAR (2400K to 9900K)
<b>Chroma Amount Variability</b>	±3 step
<b>Scene File</b>	Full Auto, Manual1, Manual2, Manual3
<b>Output Format</b>	HD 1080:59.94p/50p 1080:59.94i/50i 1080:29.97p/25p 1080:29.97PsF/25PsF 720:59.94p/50p
<b>Synchronization System</b>	Internal synchronization/External synchronization (BBS, Tri-level sync)
<b>Image Stabilization</b>	Optical /4-axis hybrid image stabilizer for stable
<b>[USB connection]</b>	* This may vary depending on the operating environment.
<b>Video Output</b>	USB Video Class Ver1.0
<b>[USB connection]Video compression format</b>	Motion JPEG
<b>Resolution</b>	1920 x 1080, 1280 x 720, 640 x 360
<b>Frame Rate</b>	max 30 fps (59.94 Hz) max 25 fps (50 Hz)
<b>Audio Output</b>	USB Audio Class Ver1.0
<b>[USB connection]Audio compression format</b>	Linear PCM, 48 kHz, 16-bit, 2 channels
<b>Transfer modes(JPEG)</b>	1920x1080/1280x720/640x360 59.94 Hz: 30fps/15fps/5fps, 50 Hz: 25fps/12.5fps/5fps Supported
<b>Supported Models</b>	Devices standardly equipped with a USB 2.0 compatible port
<b>[Pan-tilt head unit]</b>	
<b>Installation Method</b>	Stand-alone (Desktop) or suspended (Hanging)*5
<b>Pan/Tilt Operation Speed</b>	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s
<b>Panning Range</b>	±175°
<b>Tilting Range</b>	-30°to 90°*6
<b>Quietness</b>	During preset: NC40 or less During manual: NC35 or less
<b>[Camera/pan-tilt head control]</b>	
<b>IP Connecting Cable</b>	When connecting through a hub: LAN cable*7 (category 5 or above),max. 100 m (328 ft) When using a PoE+ hub: LAN cable*7 (category 5e or above),max. 100 m (328 ft) When a hub is not used: LAN cable*7 (category 5 or above),max. 100 m (328 ft)
<b>AW Protocol Connecting Cable</b>	LAN cable*7 (category 5 or above, straight cable), max. 1000 m (3280 ft)
<b>Standard Protocol Connecting Cable</b>	Mini DIN 8-pin cable, male
<b>[SD card recording]</b>	
<b>SD Card Recording</b>	MPEG-4 AVC file standard compliant (.MP4)
<b>Video Compression Format</b>	MPEG-4 AVC/H.264 High Profile
<b>Audio Compression Format</b>	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
<b>Recording format/Bit rate   59.94 Hz</b>	1920x1080/59.94p (Up to 28 Mbps), 1920x1080/29.97p (Average 15 Mbps/Average 10 Mbps/Average 6 Mbps), 1280x720/59.94p (Average 15 Mbps), 1280x720/29.97p (Average 8 Mbps/Average 4 Mbps/Average 2 bps/Average 1 Mbps)
<b>Recording format/Bit rate   50 Hz</b>	1920x1080/50p(Up to 28 Mbps), 1920x1080/25p(Average 15 Mbps/Average 10 Mbps/Average 6 Mbps), 1280x720/50p(Average 15 Mbps), 1280x720/25p(Average 8 Mbps/Average 4 Mbps/Average 2 Mbps/Average 1 Mbps)
<b>[Network]</b>	
<b>Transfer modes   JPEG</b>	1920x1080, 1280x720, 640x360, 320x180, 59.94 Hz (30fps/15fps/5fps)*8, 50 Hz (25fps/12.5fps/5fps)*8
<b>Transfer modes   H.264</b>	1920x1080, 1280x720, 640x360, 320x180, 59.94 Hz (60fps*9/30fps/15fps/5fps)*8, 50 Hz (50fps*9/25fps/12.5fps/5fps)*8
<b>Supported protocol   IPv4</b>	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
<b>Supported protocol   IPv6</b>	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
<b>iOS, Android Support</b>	JPEG image display

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<b>Accessories</b>	Mount bracket for installation surface (Hanging*10 / Desktop): 1 Drop-prevention wire (already attached to the unit): 1 Bracket mounting screws (bind-head) M4 x 10 mm: 4 Main unit mounting screw (with flat washer, spring washer) M3 x 6 mm: 1 Power cable (1.5 m [4.92 ft]): 1 AC adaptor: 1 CD-ROM: 1
<b>Note</b>	*1: It may be necessary to upgrade the version of the controller so that the controller will support the unit. *2: During Auto, 6 dB to 48 dB (6 dB step) are available for AGC Max Gain setting. *3: During Auto, 0 dB, 6 dB, 12 dB and 18 dB are available for Auto F.Mix Max Gain setting. *4: "Auto" is available when "Scene" setting is "Full Auto". *5: To ensure safety, the unit must be secured using the mount bracket supplied. *6: Depending on the pan or tilt position, the camera may be reflected in the image. *7: Use of an STP (shielded twisted pair) cable is recommended. *8: The frame rate may be lower than the setting depending on the operating conditions. *9: When the image resolution is "640x360" or "320x180", 60fps or 50fps cannot be selected for the frame rate. *10: To ensure more safety, AW-HE42W/K can be secured by using the direct ceiling mount bracket (WW-Q105A).

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Maximum speed during manual: 90°/s