



Full HD Remote Camera with NDI®*1 HX Support

AW-HN38H

The AW-HN38 pan/tilt/zoom camera incorporates newly-developed 1/2.3-type full HD MOS sensors and Digital Signal Processors (DSP) for high sensitivity, high resolution and superior video capture in a wide range of shooting conditions.

Key Features

1/2.3-Type MOS

22x Optical Zoom plus 30x i. Zoom & 16x Digital Zoom

IP Connectivity for web interface and control plus PoE+ support for single cable power, streaming and camera control

HDMI Video Output, in addition to USB and microSD card built-in recording

NDI®*1 HX - PoE+ for Power, Ultra Low Latency Audio/Video, Tally & Control via a Single Cable

Panasonic CONNECT





General -> Power Requirements DC 12 V (Supplied AC adaptor), DC 42 V to 57 V (PoE+ power supply) General -> Current Consumption 1.2 A (Supplied AC adaptor), 0.4 A (PoE+ power supply) 0 °C to 40 °C (32 °F to 104 °F) General -> Ambient Operating Temperature General -> Ambient Operating 20 % to 90 % (no condensation) Humidity General -> Storage Temperature -20 °C to 50 °C (-4 °F to 122 °F) General -> Weight Approx. 1.5 kg (3.30 lb) General -> Dimensions W 160 mm x H 186 mm x D 166 mm (6-5/16 inches x 7-41/128 inches x 6-17/32 inches) (excluding protrusions, direct ceiling mount bracket) General -> Finish AW-HN38HW: Pearl white AW-HN38HK: Metallic black General -> Controller Supported See the "Compatibility Chart for Operation Devices and Application Software" page Camera Unit -> Imaging Sensor 1/2.3-type MOSx1 Camera Unit -> Focus Switching between auto and manual Camera Unit -> Focus Distance Entire zooming range: 1.2 m (3.94 ft) Wide end: 10 cm (0.33 ft) Camera Unit -> Color Separation On-chip color filter system **Optical System** Camera Unit -> Minimum Illumination 0.7 lx (50 IRE, F1.6, 48 dB, 1/60 without accumulation) -> 59.94Hz 0.35 lx (50 IRE, F1.6, 48 dB, 1/30 with accumulation [Frame Mix 6 dB]) Camera Unit -> Minimum Illumination 0.7 lx (50 IRE, F1.6, 48 dB, 1/50 without accumulation) -> 50Hz 0.35 lx (50 IRE, F1.6, 48 dB, 1/25 with accumulation [Frame Mix 6 dB]) Camera Unit -> Horizontal Resolution -1000 TV lines Typ (Center area) > HD Camera Unit -> Gain Selection Auto, 0 dB to 48 dB (3 dB steps) Camera Unit -> Frame Mix<sun> Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB *2</sup> Camera Unit -> Electronic Shutter 1/30 to 1/2000[59.94 Hz] Speed -> FullAuto 1/25 to 1/2000 [50 Hz] Camera Unit -> Electronic Shutter 1/60 to 1/2000 [59.94 Hz] Speed -> Auto 1/50 to 1/2000 [50 Hz] Camera Unit -> Flectronic Shutter 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz] Speed -> Manual 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50Hz] Camera Unit -> Synchro Scan -> 59.94 Hz to 660.09 Hz 59.94Hz Camera Unit -> Synchro Scan -> 50Hz 50.00 Hz to 570.12 Hz Camera Unit -> Gamma Off, Normal (Low, Mid, High), Cinema AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K) Camera Unit -> White Balance Camera Unit -> Chroma Amount ±3 steps Variability Camera Unit -> Scene File Full Auto, Manual1, Manual2, Manual3 Internal synchronization Synchronization System Input Connector -> DC IN DC 12 V IN. PoE+ (IEEE802.3at standard) Output Connector -> HDMI HDMI connector • HDCP is not supported. • VIERA Link is not supported. Input/Output Connector -> LAN LAN connector for IP control (RI-45). Equipped with straight/crossover cable auto detection function Input/Output Connector -> RS-232C Mini DIN 8-pin (IN), Mini DIN 8-pin (OUT) Input/Output Connector -> RS-422 CONTROL IN RS422A (RJ-45) Input/Output Connector -> USB Mini-B port Input/Output Connector -> SD Card microSD card slot

AW-HN38H

https://eu.connect.panasonic.com/b e/en/broadcast-proav/aw-hn38h

Input/Output Connector -> MIC/LINE	Stereo mini-jack (ø3.5 mm)
Input	Input impedance: Approx. 2 k Ω (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
	Line input
	• Input level: -10 dBV ± 3 dBV
USB Connection -> Video Output <sup *4</sup 	> USB Video Class Ver1.0
USB Connection -> Video Compressio	n Motion JPEG
Format ^{*4}	
USB Connection -> Resolution	1920 x 1080, 1280 x 720, 640 x 360
*4	max 30 fps (System frequency 59.94 Hz), max 25 fps (System frequency 50 Hz)
*4	has 50 rps (system requercy 55.54 riz), has 25 rps (system requercy 50 riz)
USB Connection -> Audio Output <sup< th=""><th>> USB Audio Class Ver1.0</th></sup<>	> USB Audio Class Ver1.0
*4	
Format ^{*4}	nLinear PCM, 48 kHz, 16-bit, 2 channels
USB Connection -> Supported	Devices standardly equipped with a USB 2.0 compatible port
Models ^{*4}	*7
Pan-tilt Head Unit -> IP connecting cable ^{*5}	• When connecting through a hub: LAN cable *7(category 5 or above), max. 100 m (328 ft)
cable~sup> "5~/sup>	\cdot 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(category 5 or above), max. 100 m (328 ft)
Pan-tilt Head Unit -> AW protocol	LAN cable ^{*7} (category 5 or above, straight cable), max. 1000 m (3280 ft)
connecting cable Pan-tilt Head Unit -> Standard	Mini DIN 8-pin cable, male
Protocol Connecting Cable	
Pan-tilt Head Unit -> Installation	Stand-alone (Desktop) or suspended (Hanging) ^{*5}
Method	Maximum and during present 200%. Maximum and during manual 0.0%
Speed	onMaximum speed during preset: 300°/s, Maximum speed during manual: 90°/s
Pan-tilt Head Unit -> Panning Range	±175°
Pan-tilt Head Unit -> Tilting range	-30° to 90° ^{*6}
Pan-tilt Head Unit -> Quietness	During preset: NC40 or less
	During manual: NC35 or less
SD Card Recording -> SD Card Recording	MPEG-4 AVC file standard compliant (.MP4)
SD Card Recording -> SD Card Type	micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher
SD Card Recording -> System	59.94 Hz/50 Hz
Frequency	
SD Card Recording -> Video Compression Format	MPEG-4 AVC/H.264 High Profile
SD Card Recording -> Audio	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
Compression Format	
SD Card Recording -> Recording Format -> 59.94Hz	1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p
SD Card Recording -> Recording	1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x
Format -> 50Hz	720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p
Network -> Resolution -> JPEG	VGA (640 x 360), QVGA (320 x 180) max.30 fps
	1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps
Network -> Resolution -> H.264	1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps
Network -> Supported Protocol -> IPv4	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast
Network -> Supported Protocol ->	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD),
IPv6	RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast
Network -> iOS, Android Support	JPEG image display
Footnote Description	
	It may be necessary to upgrade the version of the controller so that the controller will
	support the unit.

During Auto, 6 dB to 48 dB (6 dB steps) are available for AGC Max Gain setting.

During Auto, 0 dB, 6 dB, 12 dB and 18dB are available for Auto F. Mix Max Gain setting.

This may vary depending on the operating environment.

To ensure safety, the unit must be secured using the mount bracket supplied.

Depending on the pan or tilt position, the camera may be reflected in the image.

Use of an STP (shielded twisted pair) cable is recommended.