



4K Remote Camera with NDI®*1 HX Support.

AW-UN70

Get streaming beautifully with the AW-UN70 Professional PTZ camera. Take advantage of 4K resolution to give your audience all the details. Everything you need to take your live production to the next level is in here!

Key Features

Built in Support for NDI®*1 via NDI®*1 HX

20x Optical Zoom (+30x iZoom and 12x Digital Zoom)

1/2.3-type MOS Sensor

PoE+ for Single Cable Power, Control, Streaming & Tally

1300 Horizontal Lines of Resolution (UHD)



Panasonic CONNECT





Concern S Concern Community	DC 12 V (Supplied AC adaptor), DC 42 V to 57 V (PoE+ power supply)
General -> Current Consumption	1.3 A (Supplied AC adaptor), 0.5 A (PoE+ power supply)
General -> Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
General -> Ambient Operating Humidity	20 % to 90 % (no condensation)
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 179 mm
	(6-5/16 inches x 7-41/128 inches x 7-3/64 inches)
General -> Finish	(excluding protrusions, direct ceiling mount bracket) AW-UN70W: Pearl white
	AW-UN70K: Metallic black
	³ See the "Compatibility Chart for Operation Devices and Application Software" page
Camera Unit -> Imaging Sensor	1/2.3-type MOSx1
Camera Unit -> Zoom	• Optical zoom: 20x
	• i.Zoom UHD 22x, FHD 30x
	• Digital zoom: 12x
Camera Unit -> Lens	Optical 20x zoom, F1.8 to F3.6
	[f=4.08 mm (5/32 inches) to 81.6 mm (3-7/32 inches);
Camera Unit -> Optical Filter -> ND	35 mm (1-3/8 inches) equivalent: 29.5 mm (1-5/32 inches) to 612.0 mm (24-3/32 inc Auto ^{*4} , Through, 1/4, 1/16, 1/64
Filter	
Camera Unit -> Focus	Switching between auto and manual
Camera Unit -> Focus Distance	Entire zooming range: 1.5 m (4.92 ft) Wide end: 10 cm (0.33 ft)
Camera Unit -> Color Separation Optical System	On-chip color filter system
Camera Unit -> Minimum Illuminatic -> 59.94Hz	on 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])
Camera Unit -> Minimum Illuminatio -> 50Hz	on 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])
Camera Unit -> Horizontal Resolutio > 4K	
	n -1300 TV lines Typ (Center area)
> 4K Camera Unit -> Horizontal Resolutio	n -1300 TV lines Typ (Center area)
> 4K Camera Unit -> Horizontal Resolutio > HD	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area)
> 4K Camera Unit -> Horizontal Resolutio > HD Camera Unit -> Gain Selection	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area) Auto, 0 dB to 48 dB (3 dB step)
> 4K Camera Unit -> Horizontal Resolutio > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area) Auto, 0 dB to 48 dB (3 dB step) Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB
> 4K Camera Unit -> Horizontal Resolutio > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area) Auto, 0 dB to 48 dB (3 dB step) Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB 1/60 to 1/2000 (Auto Slow Shutter: Off) [59.94Hz]
> 4K Camera Unit -> Horizontal Resolutio > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area) Auto, 0 dB to 48 dB (3 dB step) Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB 1/60 to 1/2000 (Auto Slow Shutter: Off) [59.94Hz] 1/30 to 1/2000 (Auto Slow Shutter: On) [59.94Hz]
> 4K Camera Unit -> Horizontal Resolutio > HD Camera Unit -> Gain Selection Camera Unit -> Frame Mix Camera Unit -> Electronic Shutter	n -1300 TV lines Typ (Center area) n -1000 TV lines Typ (Center area) Auto, 0 dB to 48 dB (3 dB step) Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB 1/60 to 1/2000 (Auto Slow Shutter: Off) [59.94Hz] 1/30 to 1/2000 (Auto Slow Shutter: On) [59.94Hz] 1/50 to 1/2000 (Auto Slow Shutter: Off) [50 Hz]

AW-UN70

https://eu.connect.panasonic.com/b e/en/broadcast-proav/aw-un70

Camera Unit -> Electronic Shutter Speed -> Manual	1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94Hz]
	1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50 Hz]
Camera Unit -> Synchro Scan -> 59.94Hz	59.94 Hz to 660.09 Hz (255 steps)
Camera Unit -> Synchro Scan -> 50Hz	7 50 00 Hz to 570 12 Hz (255 stops)
Camera Unit -> Gamma	Off, Normal (Low, Mid, High), Cinema
Camera Unit -> White Balance	ATW, AWB A, AWB B, 3200K, 5600K, VAR (2400K to 9900K)
Camera Unit -> Chroma Amount	
Variability	±3 step
Camera Unit -> Scene File	Full Auto, Manual1, Manual2, Manual3
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Image Stabilization	Optical (FHD, 4K) /4-axis hybrid image stabilizer (FHD) for stable
Input Connector -> DC IN	DC 12 V IN, PoE+ (IEEE802.3at standard)
input Connector -> G/L IN	BBS (Black Burst Sync) signal and tri-level sync supported (BNC x 1)
Input Connector -> AUDIO INPUT -> Stereo Mini Jack	Stereo mini-jack (ø3.5 mm)
	Input impedance: Approx. 2 kΩ (unbalanced)
	Mic input
	Supported microphones: Stereo mic (plug-in power, on/off switching via menu)
	• Supplied voltage: 2.5 V \pm 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
Output Connector -> HDMI	• HDCP is not supported.
	• VIERA Link is not supported.
Output Connector -> 3G-SDI OUT	Compliant with the SMPTE424/SMPTE292M
	standards/75 Ω (BNC x 1)
Input/Output Connector -> LAN	LAN connector for IP control (RJ-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 R\$422A (R]-45)
input/Output Connector -> USB	
• •	Mini-B port
nput/Output Connector -> SD Card	microSD card slot
JSB Connection -> Video Output *4	USB Video Class Ver1.0
USB Connection -> Video Compression	n Motion JPEG
Format ^{*4}	
USB Connection -> Resolution *4	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
USB Connection -> Frame Rate ^{*4}	max 30 fps (59.94 Hz), max 25 fps (50 Hz)
USB Connection -> Audio Output *4	USB Audio Class Ver1.0
	n Linear PCM, 48 kHz, 16-bit, 2 channels
USB Connection -> Transfer Modes (JPEG) ^{*5}	3840 x 2160
	59.94 Hz: 5fps, 50 Hz: 5fps

1920 x 1080/1280 x 720/640 x 360

59.94 Hz: 30fps/15fps/5fps

50 Hz: 25fps/12.5fps/5fps

USB Connection -> Supported Models Devices standardly equipped with a USB 2.0 compatible port *4

Pan-tilt Head Unit -> IP connecting cable	• When connecting through a PoE+ hub: LAN cable ^{*8} (category 5e or above), max. 100 m (328 ft)
	• When a PoE+ hub is not used: LAN cable ^{*8} (category 5 or above) max.100 m (328 ft)
Pan-tilt Head Unit -> AW protocol connecting cable	LAN cable ^{*8} (category 5 or above, straight cable), max. 1000 m (3280 ft)
Pan-tilt Head Unit -> Standard Protocol Connecting Cable	Mini DIN 8-pin cable, male
Pan-tilt Head Unit -> Installation Method	Stand-alone (Desktop) or suspended (Hanging) ^{*6}
Pan-tilt Head Unit -> Pan/tilt Operation 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° *7
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 -> Video Compression Format	MPEG-4 AVC/H.264 High Profile
SD Card Recording -> Audio Compression Format	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
SD Card Recording -> Recording Format -> 59.94Hz	3840 x 2160/29.97p (Up to 72 Mbps),
	1920 x 1080/59.94p (Up to 28 Mbps),
	1920 x 1080/29.97p (Average 15 Mbps/Average 10 Mbps/Average 6 Mbps),
	1280 x 720/59.94p (Average 15 Mbps),
	1280 x 720/29.97p (Average 8 Mbps/Average 4 Mbps/Average 2 Mbps/Average 1 Mbps
SD Card Recording -> Recording Format -> 50Hz	3840 x 2160/25p (Up to 72 Mbps),
	1920 x 1080/50p (Up to 28 Mbps),
	1920 x 1080/25p (Average 15 Mbps/Average 10 Mbps/Average 6 Mbps),
	1280 x 720/50p (Average 15 Mbps),
	1280 x 720/25p (Average 8 Mbps/Average 4 Mbps/Average 2 Mbps/Average 1 Mbps)
Network -> Resolution -> JPEG	1920 x 1080, 1280 x 720, 640 x 360, 320 x 180,
	59.94 Hz (30fps/15fps/5fps) ^{*9} , 50 Hz (25fps/12.5fps/5fps) ^{*9}
Network -> Resolution -> H.264	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180,
	59.94 Hz (60fps ^{*10} /30fps/15fps/5fps) ^{*9} , 50 Hz (50fps ^{*10} /25fps/12.5fps/5fps) ^{*9}
Network -> Supported Protocol -> IPv4	TCP/IP, UDP/IP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverTCP, RTSPoverTTP, SSL(TLS), MultiCast/UniCast
Network -> Supported Protocol -> IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS,NTP, ICMPv6(MLD), RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
Network -> iOS, Android Support	JPEG image display
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Footnote Description

- 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 18dB are available for Auto F.Mix Max Gain setting.
- 4. "Auto" is available when "Scene" setting is "Full Auto".
- 5. This may vary depending on the operating environment.
- 6. To ensure safety, the unit must be secured using the mount bracket supplied.
- 7. Depending on the pan or tilt position, the camera may be reflected in the image.
- 8. Use of an STP (shielded twisted pair) cable is recommended.
- 9. The frame rate may be lower than the setting depending on the operating conditions.
- 10. When the image resolution is "3840x2160", "640x360" or "320x180", 60fps or 50fps cannot be selected for the frame rate.