

Panasonic CONNECT



Integrated 4K & HD Remote Camera

AW-UE70

The compact AW-UE70 integrated remote camera delivers 4K images with excellent zoom range and exceptional pan-tilt performance. It includes a variety of advanced & intelligent features like in-camera 4K recording or 4K streaming over IP and can be used for applications as remote video production, live events, signage or video conferencing. Black and white versions available.

Key Features

Excellent 4K video via HDMI, USB and LAN (UHD: 3840 x 2160 @25p) & HD video via 3G-SDI (up to 1080/50p)

Optical zoom 20x, extendable by iA zoom (22x in 4K / 30x in HD) & 1/2.3-type MOS sensor

High Dynamic Range function (HDR), suitable for backlit condition

A Single Cable Solution for Remote Video and Audio Capture

Supports PoE+ (Power over Ethernet+) for lower installation costs

PROFESSIONAL PARTNER LEVEL





AW-UE70

<https://eu.connect.panasonic.com/ae/en/products/broadcast-proav/aw-ue70>

General	
Power Requirements	DC 12 V (Supplied AC adaptor) DC 42 V to 57 V (PoE+ power supply)
Current Consumption	1.3 A (Supplied AC adaptor) 0.5 A (PoE+ power supply)
Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Allowable Humidity Ranges	20 % to 90 % (no condensation)
Mass	Approx. 1.5 kg (3.30 lb)
Dimensions (W x H x D)	160 mm x 186 mm x 179 mm (6-5/16 inches x 7-41/128 inches x 7-3/64 inches) [excluding protrusions, direct ceiling mount bracket]
Finish	[AW-UE70W] Pearl white [AW-UE70K] Metallic black
Controller Supported*	AW-RP50, AW-RP120G, AK-HRP200G
Camera Unit	
Imaging Sensors	1/2.3-type MOS
Lens	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)]
Focus	Switching between auto and manual
Focus Distance	Entire zooming range: 1.5 m (4.92 ft) Wide end: 10 cm (0.33 ft)
Color Separation Optical System	On-chip color filter system
Minimum Illumination	59.94 Hz: 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]) Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSP over TCP, RTSP over HTTP, SSL (TLS), MultiCast/UniCast
Horizontal Resolution	4K: 1300 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)
Gain Selection	Auto, 0 dB to 48 dB (3 dB step)
Frame Mix*3	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB
ND Filter	Auto 4, Through, 1/4, 4/16, 1/64
Electronic Shutter Speed	During Full Auto: 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] During Auto: 1/60 to 1/2000 [59.94 Hz] 1/50 to 1/2000 [50 Hz] During Manua: 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]
Synchro Scan	59.94 Hz: 59.94 Hz to 660.09 Hz (255 step)
Gamma	Off, Normal (Low, Mid, High), Cinema
White Balance	ATW, AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K)
Chroma Amount Variability	
Scene File	Full Auto, Manual1, Manual2, Manual3
Synchronization System	Internal synchronization/External synchronization (BBS, Tri-level sync)
Image Stabilization	Optical (FHD, 4K)/4-axis hybrid image stabilizer (FHD) for stable
Input	
Power	DC 12 V IN, PoE+ (IEEE802.3at standard)
MIC/Line Input	Stereo mini-jack (ø3.5 mm) Input impedance: Approx. 2 k
G/L In	Compatible with BBS (Black Burst Sync) signals and ternary synchronizing signals (BNC x 1)
Output	

Video Output	HDMI connector ? HDCP is not supported. ? VIERA Link is not supported. 3G/HD SDI OUT: Compliant with the SMPTE424/SMPTE292M standards/75
Input/Output	
Input/Output Connector	LAN: LAN connector for IP control (RJ-45) Equipped with straight/crossover cable auto detection function RS-232C: Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT) RS-422: CONTROL IN RS422A (RJ-45) USB: Mini-B port SD Card: microSD card slot
USB Connection * This may vary depending on the operating environment.	
Video Output (USB)	USB Video Class Ver1.0
Video Compression Format	Motion JPEG
Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
Frame Rate	max 30 fps (59.94 Hz) max 25 fps (50 Hz)
Audio Output	USB Audio Class Ver1.0
Audio Compression Format	Linear PCM, 48 kHz, 16-bit, 2 channels
Transfer Modes (JPEG)	3840 x 2160 59.94 Hz: 5fps, 50 Hz: 5fps
Supported Models	Devices standardly equipped with a USB 2.0 compatible port
Pan-Tilt Head Unit	
Installation Method	Stand-alone (Desktop) or suspended (Hanging) 5
Pan/Tilt Operation Speed	Maximum speed during preset: 300
Panning Range	
Tilting Range*5	-30° to 90°*6
Quietness	During preset: NC40 or less During manual: NC35 or less
Camera/Pan-Tilt Head Control	
IP Connecting Cable	• When connecting through a PoE+ hub: LAN cable*7 (category 5e or above), max. 100 m (328 ft) • When a PoE+ hub is not used: LAN cable*7 (category 5 or above) max.100 m (328 ft)
AW Protocol Connecting Cable	LAN cable (category 5 or above, straight cable), max. 1000 m (3280 ft)
Standard Protocol Connecting Cable	Mini DIN 8-pin cable, male
SD Card Recording	MPEG-4 AVC file standard compliant (.MP4)
Video Compression Format (SD)	MPEG-4 AVC/H.264 High Profile
Audio Compression Format (SD)	AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)
Recording Format/Bit Rate	59.94 Hz: 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)
Network	
Transfer Modes	JPEG: 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180, 59.94 Hz (30fps/15fps/5fps)*8, 50 Hz (25fps/12.5fps/5fps)*8 H.264: 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180, 59.94 Hz (60fps*9/30fps/15fps/5fps)*8, 50 Hz (50fps*9/25fps/12.5fps/5fps)*8
Supported Protocol	Pv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL(TLS), MultiCast/UniCast
iOS, Android Support	JPEG image display
Standard Accessories	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
Note	*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: