



## 4K PTZ Camera with simultaneous 3G-SDI, HDMI & USB output

## **AW-UE20**

PTZ cameras play an increasingly important role in teleworking such as online meetings and online classes. The AW-UE20 offers high image quality, wide shooting angle and high-magnification zoom to provide more comfortable communication through high-quality video images and stable transmission. The AW-UE20 is compatible with a wide range of systems such as SDI, HDMI, USB and IP, thus allowing flexible camera setup and operation. The AW-UE20 is a high-quality entry model. The compact unit can be installed in a small place without getting in the way.

#### **Key Features**

4K PTZ Camera

Simultaneous 3G-SDI, HDMI & USB output

Compact size & wide angle

High-Quality Video Streaming for More Comfortable Online Communication

Excellent system flexiblility to achieve smart wiring and smooth operation



# Panasonic CONNECT



### AW-UE20

https://ap.connect.panasonic.com/th/h/aw-ue20







12 V DC (10 8 V to 12 2 V) (Complied AC addition)
12 V DC (10.8 V to 13.2 V) (Supplied AC adapter) PoE+
IEEE802.3at compliant: DC42.5 to 57 V
1.3 A (Supplied AC adapter), 0.4 A (PoE+ power supply)  0 °C to 40 °C (32°F to 104°F)
0 0 0 40 0 0 52 1 10 104 1)
20 % to 90 % (no condensation)
-20 °C to 50 °C (-4 °F to 122 °F)
Approx. 1.9 kg (4.19lbs) (excluding ceiling mounting bracket)
W 165.1 mm x H 176.2 mm x D 176.1mm
(6.5 inches x 6.94 inches x 6.93 inches)
(Excluding protrusions, cable cover, mounting bracket)
AW-UE20W: White
AW-UE20K: Black
p>See the "Compatibility Chart for Operation Devices and Application Software" page
1/2.8-type 4K MOS x 1
Approx. 8,460,000 pixels
Optical zoom: 12x
• i.Zoom UHD 1.33x, FHD 1.33x
• Digital extender zoom: 1.4x , 2x
• Max Digital Zoom: 2x, 3x, 4x
Motorized Optical 12x zoom, F1.6 to F2.8
[f=3.9 mm to 46.8 mm;
35 mm equivalent: 26.4 mm to 316.4 mm]  Not supported
Horizontal angle of view: 71.0° (wide) to 6.0° (tele)
Vertical angle of view: 43.0° (wide) to 3.0° (tele)
Diagonal angle of view: 79.0° (wide) to 7.0° (tele)
on 0.4 lx (50IRE, Gain=42dB, Shutter Speed 1/30, IRIS=F1.6)
n -1,400 Typ (Center area)
<b>n -</b> 1,000 Typ (Center area)
Auto, 0dB to 42dB *1
Auto, 0dB to 42dB *1 Auto, 0dB, 6dB, 12dB, 18dB, 24dB
Auto, 0dB, 6dB, 12dB, 18dB, 24dB
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000,
Auto, 0dB, 6dB, 12dB, 18dB, 24dB 1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59,94Hz ]
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 660.0Hz
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 670.1Hz  50.0Hz to 570.1Hz
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  60.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59,94p, 1080/59.94i, 1080/25p, 720/50p
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59,94p, 1080/59,94i, 1080/29,97p, 720/59,94p  [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [10][60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59,94p, 1080/59,94i, 1080/29.97p, 720/59.94p  [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p
Auto, 0dB, 6dB, 12dB, 18dB, 24dB  1/1, 1/2, 1/3, 1/7, 1/15, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 60Hz/59.94Hz ]  1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [ 50Hz ]  60.0Hz to 660.0Hz  50.0Hz to 570.1Hz  ATW, AWB A, AWB B, 3200K, 5600K  11 steps (0 to 10)  ->[60Hz]1080/60p, 1080/60i, 1080/30p, 720/60p  [59.94Hz]1080/59,94p, 1080/59,94i, 1080/29,97p, 720/59,94p  [50Hz]1080/50p, 1080/50i, 1080/25p, 720/50p  [10][60Hz]2160/30p, 1080/60p, 1080/60i, 1080/30p, 720/60p

HDMI Connector
4:4:4/8 bit
• HDCP is not supported.
• Viera Link is not supported. 75Ω BNC
• Level-A supported *2
LAN terminal for IP control (RJ-45) 100BASE-TX/1000BASE-T
Mini DIN 8-pin (IN)/Mini DIN 8-pin (OUT)
CONTROL IN RS422A (RJ-45) Type-C connector
MIC/LINE input compatible (SDI/HDMI/IP/USB)
AAC compatible (compatible with IP only)
ø 3.5 mm stereo mini jack Imbalance
During MIC input
Input level: -40 dBV ( 0 dB=1 V/Pa、1 kHz )
Compatible Plug-in power, Supply voltage: 2.5 V ± 0.5 V
During LINE input
Input level: Approx. –10 dBV
• Variable input volume range: –36 dB to +12 dB (3 dB step)
Embedded audio output level: –12 dBFS
Sampling frequency: 48 kHz
Number of quantization bits: 16 bits     If you have a PoE+ ethernet hub
LAN cable *3(category 5e or above, straight cable) Max 100 m (328 ft)
• If you don't have a PoE+ ethernet hub
LAN cable *3
• LAN cable(category 5e or above, straight cable) Max 1000 m (3280 ft)
Mini Din 8-pin cable (male)
Stand-alone (Desktop) or suspended (Hanging)
State done (Sentesp) of Suspended (Talignig)
<b>n</b> Speed range:
Manual: 0.1°/s to 100°/s
Preset: 0.1°/s to 200°/s (Tilt: to 140°/s)
±170° -30° to 90° *5
NC40 or less (60 deg/sec or less)
NC55 or less (100 eg/sec or less)
NC55 or less (100 eg/sec or less) Windows 10
· · · · · · · · · · · · · · · · · · ·
Windows 10
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit)
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG] 1280×720、640×360
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG] 1280×720、640×360 [H.264/H.265]
Windows 10 Windows® Internet Explorer® 11 (32 bit / 64 bit) Microsoft Edge Google Chrome Mac OS v10.15 Mac OS v10.14 Mac OS v10.13 Mac OS v10.12 Safari Google Chrome MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG] 1280×720、640×360 [H.264/H.265] 3840×2160、1920×1080、1280×720、640×360
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Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari  Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360  [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7
Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge Google Chrome Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360 [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7
Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari  Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360  [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz]  4K: 5fps/15fps/30fps
Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari  Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360  [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz]  4K: 5fps/15fps/30fps/60fps
Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari  Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360 [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz]  4K: 5fps/15fps/30fps/60fps [50Hz]
Windows® Internet Explorer® 11 (32 bit / 64 bit)  Microsoft Edge  Google Chrome  Mac OS v10.15  Mac OS v10.14  Mac OS v10.13  Mac OS v10.12  Safari  Google Chrome  MJPEG (HTTP), H.264 (RTSP/RTMP/RTMPS), H.265 (RTSP)  [MJPEG]  1280×720、640×360  [H.264/H.265]  3840×2160、1920×1080、1280×720、640×360  Max 30fps (25fps)  Unspecified *7  [60Hz/59.94Hz]  4K: 5fps/15fps/30fps/60fps

IP Streaming -> Image Transmission Setting (H.264) -> Max Bit Rate	RTSP/RTMP:1024kbps to 32768kbps
	RTMPS:1024kbps to 8192kbps
IP Streaming -> Image Transmission Setting (H.265) -> Frame Rate	[60Hz/59.94Hz]
	4K: 5fps/15fps/30fps
	FHD: 5fps/15fps/30fps/60fps
	[50Hz]
IP Streaming -> Image Transmission	- 4K: 5fps/10fps/25fps
	FHD: 5fps/10fps/25fps/50fps 1024kbps to 32768kbps
Setting (H.265) -> Max Bit Rate	
IP Streaming -> Audio Compression Format	AAC-LC, 48kHz/16bit/2ch
IP Streaming -> Supported Protocol -> IPv6	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DNS, ICMPv6, NTP
IP Streaming -> Supported Protocol -> IPv4	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, DHCP, DNS, ICMP, ARP, RTMP, RTMPS, NTF
	USB Video Class Ver1.1
	YUV (Uncompressed), MJPEG, H.264
type USB web camera -> Image resolution ( -> YUV	640x360
	3840x2160, 1920x1080, 1280x720, 640x360
•	3840x2160, 1920x1080, 1280x720, 640x360
USB web camera -> Image	[60Hz/59.94Hz]:15fps
Transmission Setting (frame rate) ->	[50Hz]:10fps
USB web camera -> Image	[60Hz/59.94Hz]
Transmission Setting (frame rate) ->	4K: 5fps
MJPEG	•
	FHD: 5fps, 15fps, 30fps
1	[50Hz]
•	4K: 5fps
	FHD: 5fps 10fps, 25fps
	[60Hz/59.94Hz]
Transmission Setting (frame rate) -> H.264	4K: 5fps, 15fps, 30fps
	FHD: 5fps, 15fps, 30fps, 60fps
	[50Hz]
	4K: 5fps, 10fps, 25fps
	FHD: 5fps, 10fps, 25fps, 50fps
	USB Audio Class Ver1.0
	Linear PCM, 48KHz/16bit/2ch
Compression Format	
Footnote Description	
•	Can be set in 3 dB step increments.
1	Embedded audio is not supported.
!	STP (Shielded Twisted Pair) is recommended.
	To ensure safety, the unit must be secured using the mount bracket supplied.
-	to ensure surety, the unit must be secured using the mount bracket supplied.
-	The main unit may appear in the video depending on the pan/tilt position.
- !	