KT-HW40UM/40UW/40US

HD video conference camera

| 1080P Full HD | WIFI 6 Dual-Band | YUY2/MJPEG H.264/H.265 |

| USB2.0 | 4K Image Upgrade |

Features

■ **1080P Full HD video output:**

HW40UM /40UW: Equipped with the latest generation 1/2.8-inch COMS high-quality sensor;
HW40US: Features a SONY 1/2.8-inch CMOS high-quality sensor;
Both can achieve premium images with a maximum resolution of 1920*1080.

■ **The industry's first WIFI 6 technology wireless transmission camera:**

It is the first time to adopt the wireless transmission technology of WIFI 6. Compared with the current common application of WIFI 5, it has the characteristics of greater bandwidth, suitable for more terminals, strong anti-interference, lower power consumption, wider coverage and higher protection, transmission Speed is increased by 40%.

■ **Wireless WIFI 6 supports 4K picture output:**

External dual-band WiFi 6 USB3.0 dongle (optional), supports H40U series upgrade up to 4K effect, including higher picture quality mode and longer transmission distance mode, can be applied to different modes according to the use environment, the longest transmission distance in distance mode up to 50 meters (no shelter), The best transmission distance in picture quality mode is within 10-15 meters.

* The maximum theoretical speed of wifi 6 can reach 9.6Gps, which is nearly 3 times that of wifi 5, and the signal stability is further improved.

■ **Wireless camera one-to-two cascading function:**

The newly upgraded WiFi 6 also enables wireless cascading of two cameras using a single WiFi dongle. Through a USB3.0 wireless dongle, it outputs separate video signals from two cameras, allowing for a streamlined connection that delivers an industry-innovative multi-camera experience.

*The one-to-two function cannot achieve 4K video output.

■ A variety of drawing mode to be choose:

Wired and wireless drawing mode can be selected according to the needs.

■ Supports an external USB type a expansion interface:

USB Type A expansion port can be used according to the needs, and external products such as microphones can be installed to further increase product application scenarios.

■ USB 2.0 interface:

Support full HD 1080p video output.

■ Remote control:

Using RS232 and RS422/485 serial ports, it can cascade control multiple cameras.

■ Low Light:

Brand new CMOS image sensor with ultra high S/N Ratio can effectively reduce image noise in low light conditions. Applying 2D&3D Digital noise reduction at the same time, it reduces image noise greatly, even in ultra low light conditions, it could still remain the frame clean and clear, S/N Ratio of the image is higher than 55dB.

■ Multiple encoding formats:

USB 2.0 supports YUY2, MJPEG, H265, and H264 encoding formats, reducing the pressure on host encoding and decoding.

■ Multiple Control Protocols:

Support VISCA, PELCO P/D protocol, support automatic identification protocol.

■ Multi-installation Methods:

Wall mounting, desktop or ceiling mounting.

Specifications

Image Parameters	
Resolution	USB: 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240 WIFI: 3840*2160, 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240
Image Sensor	HW40UM/40UW: 1/2.8" CMOS HW40US: SONY 1/2.8" CMOS
Pixels	HW40UM/UW: 2.19 Effective Megapixels HW40US: 2.10 Effective Megapixels
Scan Mode	Line by line
Lens	HW40UM: Fixed Focus Lens, f=2.26mm,F1.8 HW40UW: 3X Optical Zoom, f=3.35mm(W)~10.05mm(T), F1.7~F3.0 HW40US: 10X Optical Zoom, f=4.7mm(W)~47.0 mm(T), F2.8~F3.2
Digital Zoom	HW40UM/UW: 4X

Horizontal View Angle	HW40UM: 108° HW40UW: 99.6°(W)~30.6°(T) HW40US: 60.9°(W)~6.43°(T)
Vertical View Angle	HW40UM: 61° HW40UW: 56°(W)~17.2°(T) HW40US: 34.3°(W)~3.6°(T)
Focus System	HW40UM: Manual HW40UW/US: Auto, Manual
Shutter Speed	1/25s ~ 1/10000s
Minimum Illumination	HW40UM: 1.5 Lux HW40UW: 1.5 Lux HW40US: 0.1 Lux
Exposure	Auto, Manual
White Balance	Auto, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital noise reduction
S/N Ratio	≥50dB
Pan/Tilt	
Pan Angle	±170°
Tilt Angle	-30°~+90°
Pan Speed	1°~60°/s
Tilt Speed	1°~60°/s
Preset Positions	9 preset positions by IR remote controller, 255 preset positions by joystick controller or PC
Preset Accuracy	0.1°±10%
Flip	Support
USB	
Protocol	UVC 1.1
Operating System	Window7 and above, MacOS, Linux, Android
Video Compression	YUY2, MJPEG, H.264
Frame Rate	Max.30
UVC Control	Support
Interface	
USB Interface	1 Line, USB2.0, Type-A Socket 1 Line, USB2.0 extensional in, Type-A Socket
Serial Interface	1 Line, RS232 IN: 8-Pin Mini Din, up to 30 meters, VISCA/Pelco-D/Pelco-P Protocol. 1 Line, RS422/485: 3-Core Phoenix Interface, up to 1200 meters, VISCA/Pelco-D/Pelco-P Protocol.
Power Interface	JEITA RC-5320A Type 4
General Specifications	
Input Voltage	DC 12V

Input Current	Max.0.7A
Power Consumption	Max.8W
Operating Temperature	0~40℃
Storage Temperature	-10~60℃
Color	Silver
Dimension	(W)180*(D)180*(H)175mm
Weight	1.2kg
Accessories	DC 12V power adapter, IR Remote, User manual, USB2.0 Cable, Ceiling bracket, Wall bracket(Optional)

WiFi Dangle Specifications

USB Specifications	
Protocol	UVC1.1
USB Version	USB 3.0
Operating System	Window7 and above, MacOS, Linux, Android
UVC Video Coding Format	YUY2, MJPEG
UVC Video Frame Rate	Up to 30FPS
Wireless Parameters	
Band	2.4GHz/5.8GHz
Power Consumption	5V/0.4A
Wireless Network Standard	IEEE 802.11b/g/n 1T1R
WIFI Image Output	
MJPEG	3840*2160,1920*1080,1280*720,960*540,800*600,640*360,720*576,720*480,640*480,352*288,320*240
YUY2	1920*1080,1280*720,960*540,800*600,640*360,720*576,720*480,640*480,352*288,320*240
Other	
Use Environment	Recommended indoor
Use Distance	2.4G is recommended to be used within 50 meters, and 5.8G is recommended to be used within 15 meters
Operating Temperature	-10~40℃
Camera Dimensions	(L)275×(W)25.15×(H)12.6mm（with antenna）
Color	Black/ White
Weight	About 0.3kg

Dimension