

KT-UH40MH/MF/MQ/MN/ML

4K 20/12/10/3X/Fixed Zoom PTZ Camera

4K30fps

Fixed Focus/3/10/12/20x Optical Zoom

AI Tracking

Auto Framing

HDMI+USB3.0



Features

■ 4K Ultra HD Resolution:

Equipped with a SONY 1/2.8-inch 8.5-megapixel high-quality image sensor (effective pixels: 8.29 million), delivering maximum 4K30fps Ultra HD video output.

■ Fixed Focus, 3x, 10x, 12x, and 20x Lens Options:

UH40ML: Fixed focus lens, 94° horizontal field of view

UH40MN: 3x optical zoom, 96.5° horizontal field of view

UH40MQ: 10x optical zoom, 67.5° horizontal field of view

UH40MF: 12x optical zoom, 72.5° horizontal field of view

UH40MH: 20x optical zoom, 58.7° horizontal field of view

■ USB3.0+HDMI Dual Interfaces, Rich Application Scenarios:

Supports simultaneous 4K30fps Ultra HD video output via HDMI and USB 3.0.

■ Low Light:

The new ultra-high signal-to-noise ratio CMOS image sensor can effectively reduce image noise under low-light conditions. At the same time, 2D & 3D digital noise reduction is applied to

significantly reduce image noise. Even under ultra-low light conditions, the image can still be kept clean and clear, and the image signal-to-noise ratio is higher than 50dB.

■ Remote Control:

Multiple cameras can be controlled using RS232 and RS485 serial ports.

■ Infrared Remote Control Signal Transparent Transmission Function:

In addition to receiving its own infrared remote control signal, it can also receive signals from consumer infrared remote controls and send them to the video conferencing terminal through the VISCA port.

■ Multiple Video Compression Standards:

Different interfaces support multiple video compression formats such as YUY2, MJPG

■ Multiple Control Protocols

Supports VISCA , PELCO P/D protocols, and automatic identification protocols.

■ Various Installation Methods

Multiple installation methods, can be installed on desktop, ceiling, or wall.

■ Next-Gen AI Human Tracking Algorithm:

Features AI tracking and auto-framing.

(*Note:

With AI off: HDMI and USB 3.0 support simultaneous 4K30 output.

With AI on: HDMI supports up to 1080p60, USB 3.0 supports up to 1080p30.*)

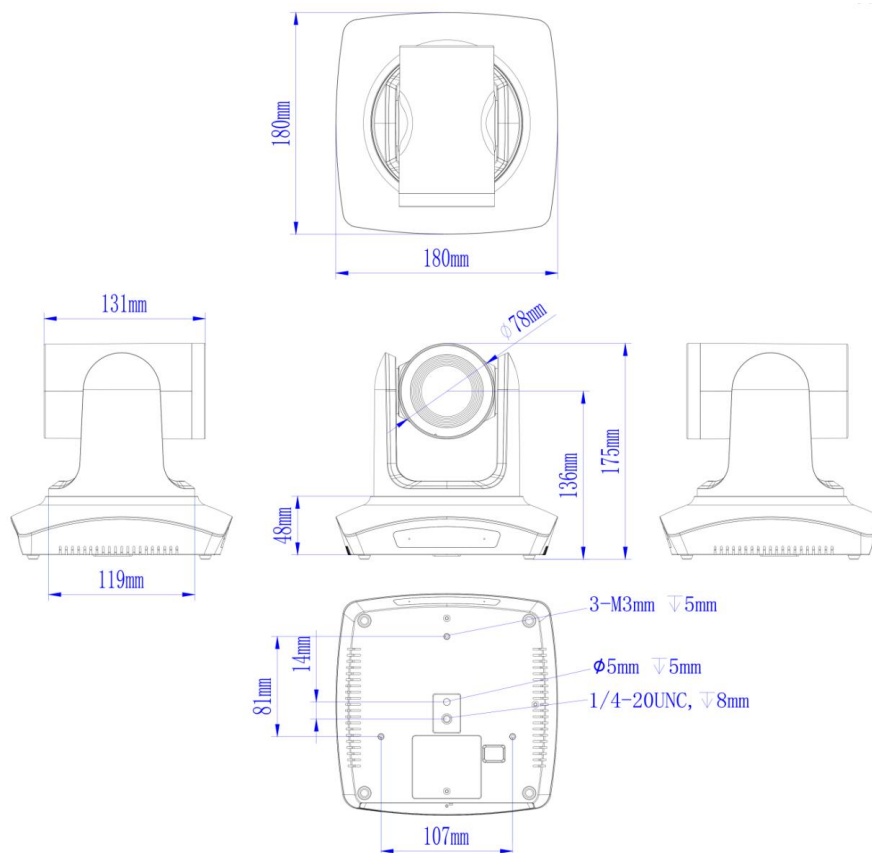
Specifications

Camera	
Video Format	HDMI: 4K30/25, 1080p60/59.94/50/30/29.97/25, 720p60/50
Image Sensor	SONY 1/2.8 " CMOS
Pixels	8.5 Megapixels , Effective Pixels 8.29 Megapixels
Scanning Method	Line by Line
Lens Focal Length	UH40ML: Fixed focus lens UH40MN: 3X Optical Zoom, f=3.2mm(W)~12.8mm(T), F1.8~F3.6 UH40MQ: 10X Optical Zoom, f=4.32mm(W)~40.9mm(T) UH40MF: 12X Optical Zoom, f=4.1mm(W)~49.2mm(T), F1.8~F2.68 UH40MH: 20X Optical Zoom, f=5.2mm(W)~104mm(T), F1.55~F3.13
Horizontal Field of View	UH40ML: 94° UH40MN: 96.5°(W)~29.3°(T) UH40MQ: 67.5°(W)~7.6°(T) UH40MF: 72.5°(W)~6.57°(T) UH40MH: 58.7°(W)~3.2°(T)
Vertical Field of View	UH40ML: 62° UH40MN: 51.5°(W)~16.5°(T)

	UH40MQ: 40.2°(W)~4.3°(T) UH40MF: 42.06°(W)~3.76°(T) UH40MH: 32.2°(W)~1.8°(T)
Focus Method	UH40MN/MQ/40MF/40MH:Automatic / Manual
Shutter	1/25s ~ 1/10000s
Minimum Illumination	0.1 Lux @ (F1.8, AGC ON)
Exposure	Auto, Manual, Iris Priority, Shutter Priority, Brightness Priority
White Balance	Auto, Indoor, Outdoor, Keying, Auto Tracking, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital noise reduction
Signal-to-Noise Ratio	≥50dB
Pan/Tilt	
Pan Range	±170°
Tilt Range	-30°~+90°
Pan Speed	1°~60°/s
Tilt Speed	1°~60°/s
Number of Preset Positions	The remote control can be set to 9, and the keyboard can be set to up to 255 preset positions.
Preset Position Accuracy	0.1°±10%
Flip	Support
AI	
AI Tracking	Support
Auto Framing	Support
Tracking Size	Support
Tracking Sensitivity	Support
AI Guard Position	Support
USB	
Protocol	UVC 1.1
Operating System	Window7 and above, MacOS, Linux, Android
Video Encoding Format	YUY2, MJPEG
Resolution	3840*2160, 2560*1440, 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240
Video Frame Rate	Up to 30
UVC PTZ control	Support
Input and Output Interface	
HDMI Interface	1 way, HDMI: version 1.4
USB Interface	1 way, USB3.0, Type-B socket

Communication Interface	1 channel, RS232 IN: 8-pin small DIN, maximum distance 30 meters, VISCA/Pelco-D/Pelco-P protocol 1 channel, RS485 IN: 3-core Phoenix port, maximum distance 1200 meters, VISCA/Pelco-D/Pelco-P protocol
Power Interface	JEITA RC-5320A Type 4
Others	
Input voltage	DC 12V
Input Current	Maximum 0.8A
Power consumption	Maximum 10W
Operating Temperature	0~40℃
Stored Temperature	-10~60℃
Color	Silver
Size	(width) 180* (depth) 180* (height) 175mm
Weight	1.2kg
Accessories	DC 12V power adapter, IR Remote, User manual, USB3.0 Cable, RS-232C Cable, Ceiling bracket, Wall bracket(Optional)

Dimensional Wireframe



Application



Business Meeting



Academic Seminar

Connection Diagram

