KT-UH86DF(NDI Version: KT-UH86DFN)

4K60 Ultra HD PTZ Camera

4K UHD 60FPS	HDMI+USB3.0+LAN+SDI	Free D
NDI®|HX Optional	12X Optical Zoom	POE
AI tracking + Auto framing	Gesture Recognition	

Features

■ **4K Ultra HD Resolution:**

Adopting the new generation of SONY 1/2.5-inch high-quality CMOS sensor, it can achieve maximum 4K60 ultra-high-definition resolution broadcasting and image output, suitable for larger scene recording.

■**12x Optical Zoom:**

High-quality super telephoto lens, 80.5° field of view, 12x optical zoom, and 16x digital zoom.

■**USB3.0+HDMI+LAN+3G-SDI Abundant Outputs for Rich Application Scenarios:**

Compatible with all current mainstream video output interfaces, HDMI+USB3.0+LAN supports 4K60 resolution output, 3G-SDI supports 1080p60 resolution output, all interfaces can output simultaneously.

■**Low Light:**

Brand new CMOS image sensor with ultra high S/N Ratio can effectively reduce image noise in low light conditions. Applied 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 50dB.

■**IR Pass-through:**

In addition to receiving signals from its dedicated remote control, it can also receive signals from users' infrared remote controls and transmit them to the video conferencing terminal through the VISCA IN port.

■**Multiple Video Compression Standards:**

Different interfaces support YUY2, H.265, MJPG, H.264 multiple video compression formats.

■**Multiple Network Protocols:**

Supports ONVIF, SRT, RTSP, RTMP, Free D and NDI®|HX (optional) protocols, Support automatic identification protocol.

* Free D protocol is being continuously updating, please refer to the shipping version.

■**Multiple Control Protocols:**

Support VISCA (VISCA Over IP), PELCO P/D, NDI® (optional) protocol, and automatically identifies protocols.

■**New generation AI humanoid + face recognition tracking algorithm:**

Supports intelligent tracking, automatic framing, and gesture recognition functions. It enables control through five types of gestures, such as activating/deactivating intelligent tracking and automatic framing, switching tracked targets using gestures, customizing tracking sizes, and zooming in/out the lens through gesture control.

■**Multi-installation Methods:**

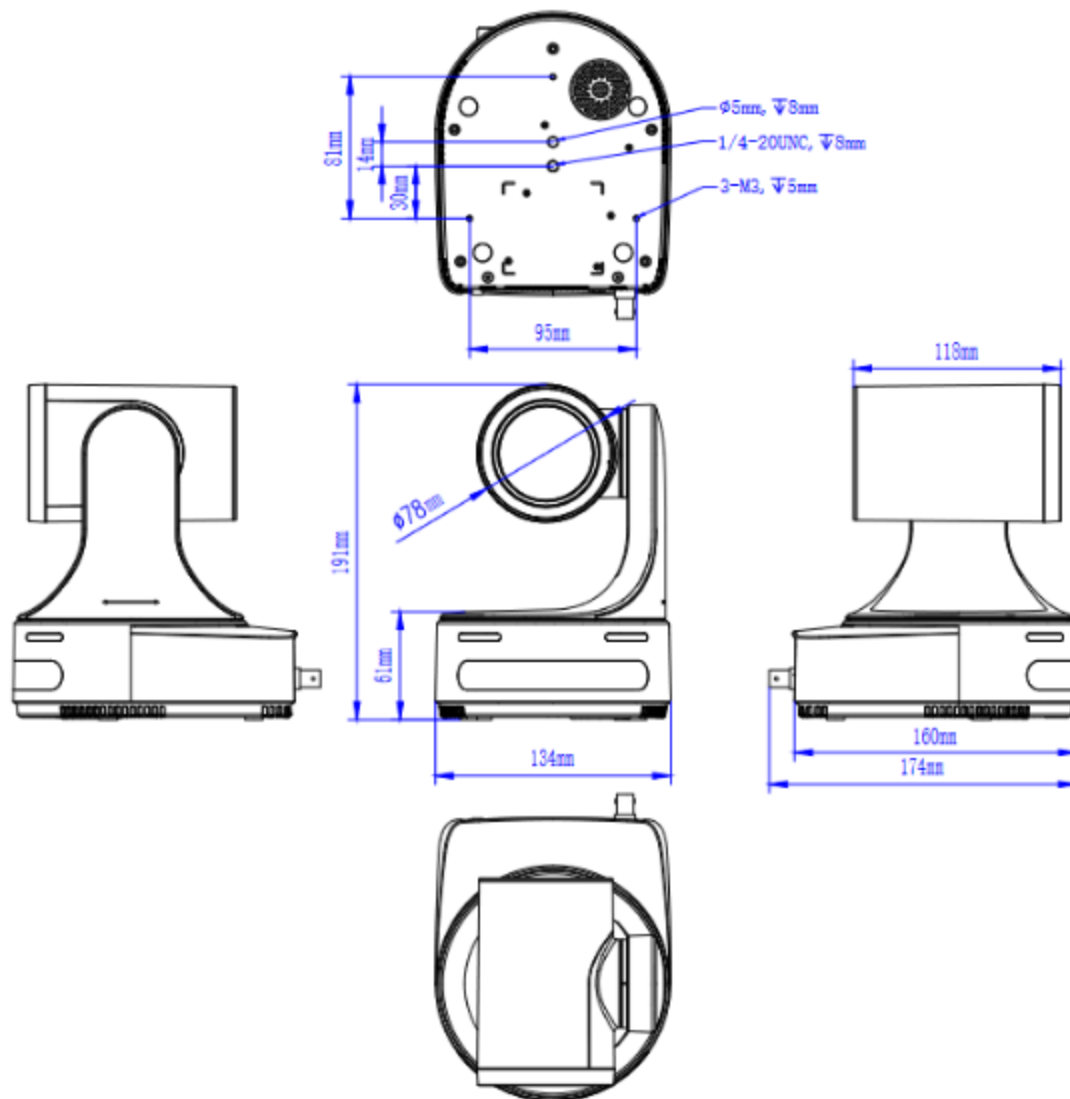Wall mounting, desktop or ceiling mounting.

Specifications

Image Parameters	
Resolution	HDMI: 4K60/59.94/50/30/29.97/25, 1080p60/59.94/50/30/29.97/25,1080i60/59.94/50, 720p60/50 3G-SDI: 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50
Image Sensor	SONY 1/2.5" CMOS
Pixels	8.50 Megapixels, 8.29 Effective Megapixels
Scan Mode	Line by line
Lens	12X Optical Zoom, f=3.4m(W)~40.4mm(T), F1.8~F3.6
Digital Zoom	16X
Horizontal View Angle	80.5°(W)~7.6°(T)
Vertical View Angle	50.5°(W)~4.4°(T)
Focus System	Auto, Manual

Shutter Speed	1/50s ~ 1/10000s
Minimum Illumination	0.1Lux
Exposure	Auto, Manual, Iris Priority, Shutter Priority, Brightness priority
White Balance	Auto, Indoor, Outdoor, Keying, Auto Tracking
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital noise reduction
S/N Ratio	≥50dB
Pan/Tilt	
Pan Angle	355°
Tilt Angle	-30°~+90°
Pan Speed	1°~80°/s
Tilt Speed	1°~60°/s
Preset Positions	9 preset positions by IR remote controller, 255 preset positions by joystick controller
Preset Accuracy	0.1°±10%
Flip	Support
Image Freeze	Support
POE	802.3af
AI	
Intelligent tracking	Support
Auto Framing	Support
Gesture Recognition	Support
USB	
Protocol	UVC 1.1, UAC1.0
Operating System	Window7 and above, MacOS, Linux, Android
Video Compression	YUY2, MJPEG
Resolution	MJPEG: 3840*2160, 2560*1440, 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240 YUY2: 1920*1080, 1280*720, 960*540, 800*600, 720*576, 720*480, 640*480, 640*360, 352*288, 320*240
Frame Rate	Max.60
UVC Control	Support
LAN	
Protocol	TCP/IP, HTTP, RTSP, RTMP, RTMPS, SRT, Onvif, DHCP, VISCA Over IP, Free D, NDI®HX2 (Optional)
Video Compression	H.264, H.265
Code Stream	Main code stream*1, Sub code stream*1
Main Stream Resolution	3840*2160, 1920*1080, 1280*720
Sub Stream Resolution	640*480, 640*360, 352*288, 320*240, 176*144
Bitrate Control	VBR, CBR
Audio	
Audio Compression	AAC
Audio Bitrate	48K and 44.1K
Interface	

HDMI Interface	1 Line, HDMI: Version 2.0
SDI Interface	1 Line, 3G-SDI
USB Interface	1 Line, USB3.0, Type-B Socket
Network Interface	1 Line, RJ45: 1000M adaptive Ethernet port
Audio Interface	1 Line, Line In, 3.5mm
Serial Interface	1 Line, RS232 IN/OUT: 8-Pin Mini Din, up to 30 meters, VISCA/Pelco-D/Pelco-P Protocol. 1 Line, RS422/485: 9-Core Phoenix Interface, up to 1200 meters, VISCA/Pelco-D/Pelco-P Protocol.
Power Interface	JEITA RC-5320A Type 4
General Specifications	
Tally Light	Support
Input Voltage	DC 12V
Input Current	Max.2.0A
Power Consumption	Max.24W
Operating Temperature	0~40℃
Storage Temperature	-10~60℃
Color	Black, White (Optional)
Dimension	(W)134*(D)174*(H)187mm
Weight	1.2kg
Accessories	DC 12V power adapter, IR Remote, User manual, USB3.0 Cable, RS-232C Cable, Ceiling bracket, Wall bracket(Optional)

Dimension

φ5mm, ⍵8mm
1/4-20UNC, ⍵8mm
3-M3, ⍵5mm

81mm
14mm
30mm
95mm

φ78mm
191mm
61mm
134mm

118mm
160mm
174mm

Application scenarios

Live streaming

Video conference

Tele-medicine

Online class

Education

Church

Connection

KD60

LAN

SDI

LAN

KC50

HDMI

LAN

LAN

Ethernet

SDI   SDI

UH86DHS

UH86DFS

UH86DFS