

KT-HD86DB/A/R

(NDI Version: KT-HD86DBN/86AN/86RN)

FHD 30/20/12X PTZ Camera

1080P 60FPS

USB3.0+HDMI+LAN+SDI

NDI®|HX OPTIONAL

30/20/12X Optical Zoom

AI Tracking+Auto Framing



Features

■ 1080P HD Resolution:

Applies SONY 1/2.8" Progressive CMOS sensor, 2.07 Megapixels, max.1920x1080 high resolution with frame rate up to 60fps.

■ Abundant Outputs for Rich Application Scenarios:

Supports HDMI, 3G-SDI, LAN, USB3.0 FHD 1080P output in sync.

■ Ultra High Frame Rate:

Video output frame rate can reach 1080P 60fps.

■ Optical Zoom Can be Chose:

HD86R: 12x optical zoom+16x digital zoom

HD86A: 20x optical zoom+16x digital zoom

HD86DB: 30x optical zoom+16x digital zoom

■ 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 55dB.

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 various video compression formats, such as YUY2, MJPG, H.265, and H.264, to meet different scenarios.

Multiple Network Protocols:

Support SRT, RTSP, RTMP, RTMPS and NDI®|HX2 (optional), and other network protocols.

Multiple Control Protocols:

Supports VISCA(including VISCA Over IP), PELCO P/D, Onvif, and NDI® (optional) control protocols, and automatically identifies protocols.

New generation AI human tracking algorithm:

Supports AI tracking and Auto framing functions.

Various Installation Methods:

A variety of installation methods, desktop, ceiling, wall installation.

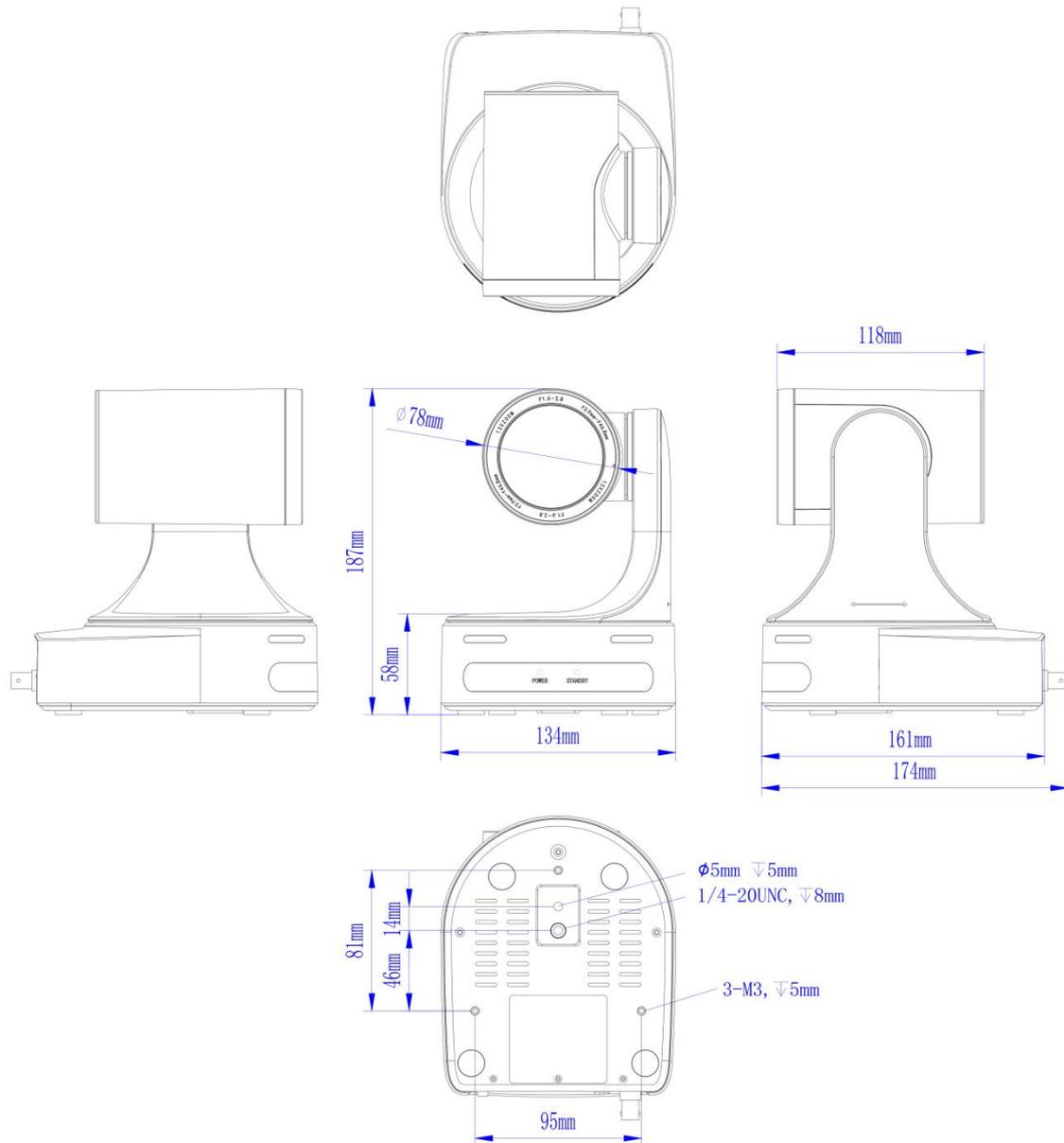
Specifications

Image Parameters	
Resolution	HDMI: 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50 SDI: 1080p60/59.94/50/30/29.97/25, 1080i60/59.94/50, 720p60/50
Image Sensor	SONY 1/2.8" CMOS
Pixels	3.10 Megapixels, 2.07 Effective Megapixels
Scan Mode	Line by line
Lens	HD86R: 12X Optical Zoom, f=4.1m(W)~49.2mm(T), F1.8~F2.68 HD86A: 20X Optical Zoom, f=5.2m(W)~104mm(T), F1.55~F3.13 HD86DB: 30X Optical Zoom, f=5.2m(W)~156mm(T), F1.3~F4.8
Digital Zoom	16X
Horizontal View Angle	HD86R: 72.5°(W)~6.57°(T) HD86A: 58.7°(W)~3.2°(T) HD86DB: 58.1°(W)~2.14°(T)
Vertical View Angle	HD86R: 42.06°(W)~3.76°(T) HD86A: 32.2°(W)~1.8°(T) HD86DB: 34.1°(W)~1.2°(T)
Focus System	Auto, Manual
Shutter Speed	1/50s ~ 1/10000s
Minimum Illumination	HD86R: 0.1 Lux @ (F1.8, AGC ON) HD86A: 0.1 Lux @ (F1.5, AGC ON) HD86DB: 0.1 Lux @ (F1.3, AGC ON)

Exposure	Auto, Manual, Iris Priority, Shutter Priority, Brightness priority
White Balance	Auto, Indoor, Outdoor, One Push, Auto Tracking, Manual
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 or PC
Preset Accuracy	0.1°±10%
Flip	Support
Image Freeze	Support
POE	802.3af (Optional)
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 Compression	YUY2, MJPEG
Resolution	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, NDI@HX2 (Optional)
Video Compression	H.264, H.265
Code Stream	Main code stream*1, Sub code stream*1
Main Stream Resolution	1920*1080, 1280*960, 1280*720, 720*576, 720*480, 640*480
Sub Stream Resolution	640*480, 640*360, 480*360, 352*288, 320*240, 176*144
Bitrate Control	VBR, CBR
Audio	
Audio Compression	AAC
Audio Bit Rate	128kbps
Interface	
HDMI Interface	1 Line, HDMI: Version 1.4
SDI Interface	1 Line, 3G-SDI

USB Interface	1 Line, USB3.0, Type-B Socket
Network Interface	1 Line, RJ45: 10M/100M 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: 5-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.1.5A
Power Consumption	Max.18W
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



Application scenarios



Connection

