



Highlights

4K Ultra HD

1/2.5 inch high quality 4K CMOS sensor; 8.51 megapixel, resolution is up to 4K (3840x2160) @60fps and compatible with 1080P, 720P and other resolutions.

Optical Zoom Lens

12X optical zoom lens, 81° FOV without distortion.

Leading Auto Focus Technology

Advanced and leading algorithm enables the camera auto focus fast and accurately.

Low Noise and High SNR

Low noise CMOS ensures super high SNR image. The advanced 2D/3D noise reduction technology reduces the noise while ensuring high image clarity.

Multiple Video Outputs:

HDMI, USB3.0 and LAN support audio video output

Multiple USB Compression Encoding Format:

YUY2,MJPEG,H.264,NV12 video encoding formats

Multiple Audio Compression Standard

Audio-in supports AAC, MP3 and G.711A audio compression; 8000,16000,32000,44100,48000 sampling frequency

Multiple network protocol

Supports, ONVIF, GB/T28181, RTSP, RTMP protocols; RTMP push mode, easy to be connected to streaming server (Wowza, FMS); RTP multicast mode; VISCA control protocol

Control Interface

RS422 (compatible with RS485); RS232 in & out; RS232 cascade connection

Multiple Control Protocol

Support VISCA, PELCO-D, PELCO-P protocols; Support automatic identification protocols.

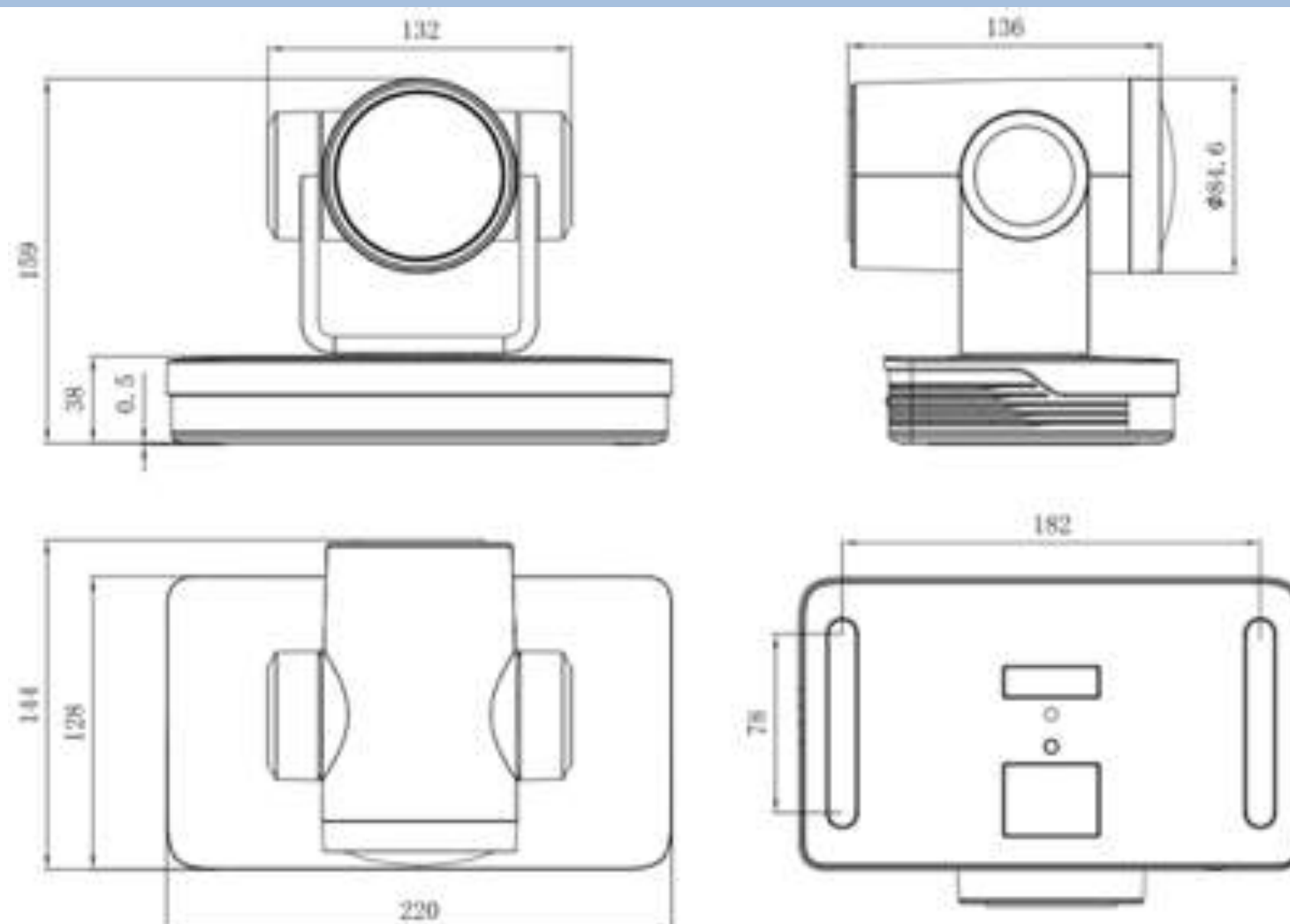
Multiple preset

Up to 255 presets (10 presets for remote control)

Multiple Applications

Online-education, Lecture Capture, Broadcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc.

Drawing



Specifications**Camera Parameters**

Optical Zoom	12X
FOV	Horizontal: 7.59°(tele)~ 81°(wide), Vertical: 4.6°(tele)~50.0°(wide)
Aperture	F1.8 - F3.56±5%
Image Sensor	1/2.5 Inch 4K CMOS Sensor
Effective pixels	8.51M; 16:9
Video Format	HDMI Video Output Format: 4KP60, 4KP50, 4KP30, 4KP25, 1080P60, 1080P50, 1080i 60, 1080i 50, 1080P30, 1080P25, 720P60, 720P50
	USB3.0 Video Output Format: YUY2/NV12: 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30 MJPEG/H.264: 3840×2160P30fps, 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30
	USB3.0 downward compatible USB2.0: YUY2/NV12: 640×360P30, 640×480P30, 320×176P30 MJPEG/H.264: 3840×2160P30, 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30
Minimum Illumination	0.05Lux (F1.8, AGC ON)
DNR	2D & 3D DNR
White Balance	Auto / Manual/ One Push/ Specified Color Temperature
Focus	Auto / Manual/ One Push
exposure mode	Auto/ Manual / Shutter Priority / Aperture Priority / Brightness priority
Aperture	F1.8 - F11, CLOSE
shutter speed	1/25 - 1/10000
BLC	OFF/ON
Dynamic range	OFF/ Dynamic Level Adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
SNR	≥50dB

Interface Features

Interfaces	HDMI, LAN(POE), USB3.0(Type B, compatible with USB2.0), A-IN, RS232-in & out; RS422 (Compatible with RS485) , Dial switch, DC12V, Power Switch
Video Compression	LAN: H.264, H.265. USB 3.0: MJPG, H264, YUY2, NV12
Audio-in Interface	Double track 3.5mm linear Input
Audio out	HDMI, LAN, USB3.0
Audio Compression	AAC, MP3, G.711A
LAN	10M/100M/1000M adaptive Ethernet port, support POE and audio/video output
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181, VISCA Control Protocols, Remote Upgrade, reboot and reset
Control Interface	RS232-IN, RS232-OUT, RS422 (RS485)
Serial Protocol	VISCA/ Pelco-D / Pelco-P; Baud rate: 115200/38400/9600/4800/2400
USB Communication Protocol	UVC(video), UAC(audio)
Power Interface	HEC3800 (DC12V)
Power Adapter	In: AC110V-AC220V ; Out: DC12V/2.5A
Input Voltage	DC12V±10%
Input Current	<1A
Power Consumption	<12W

PTZ Parameters

Pan Rotation	-170° ~ +170°
Tilt Rotation	-30° ~ +90°
Pan Control Speed	0.1°/s ~ 120°/s
Tilt Control Speed	0.1°/s ~ 80°/s
Preset Speed	Pan: 120°/s, Tilt: 80°/s
Preset Number	255 Presets (10 presets by remote control)

Other Parameters

Working Temperature	-10°C ~ +50°C
Working Humidity	20% ~ 80%
Dimension	220mm (L) × 144mm (W) × 159mm (H)
Usage	1.7 kg
Storage Temperature	Indoor

Accessories

Standard	Power supply and adapter,RS232 Cable,USB3.0 Cable, IR remote control, User Manual, ceiling/wall bracket
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