Nexvoo 4K PTZ Camera N450-Al

Nexvoo ultra HD camera N450 has complete functions, excellent performance, and rich interfaces; advanced ISP processing technology and algorithms make the image effect vivid, uniform picture brightness, strong light and color layering, high definition, and color reproduction. It supports H.265/H.264/MJPEG encoding, making the picture smoother and clearer under low bandwidth



Product Feature:

- 4K UHD Resolution: 8.5 million pixel high-quality SONY CMOS image sensor, the
 maximum resolution
 can reach 4K (3840×2160) at 30 frames per second. True-to-life Ultra HD video
 that vividly shows the expressions and movements of characters, delivering image
 quality with superb clarity and resolution.
- Optical Zoom Lens: 12X optical zoom 70° wide-angle lens.
- Leading Auto Focus Technology: Fast, accurate and stable auto focusing technology.
- Low Noise and High SNR: Super high SNR image is achieved with low noise CMOS. Advanced 2D/3D noise reduction technology further reduces the noise while ensuring high image clarity.
- Multiple Video Output Methods: Support HDMI, USB3.0, wired LAN; Support POE

- power supply, and USB3.0 support dual streams, SDI support 100 meters transmission at 1080P format.
- Multiple Audio/Video Compression Standards: Support YUY2, MJPEG, H.264, H.265, NV12 video encoding formats, MJPEG, H.264, H.265 support up to 3840×2160 resolution 30 frames/second compression; support AAC, MP3, G.711A audio compression.
- Audio Input Interface: Support AAC, MP3, G.711A audio encoding. AAC, MP3 support 16000, 32000, 44100, 48000 sampling rate.
- Built in Gravity Sensor.
- Multiple Network Protocol: Support ONVIF, GB/T28181, RTSP, RTMP, VISCA
 OVER IP, IP VISCA, RTMPS, SRT protocols; Support RTMP push mode, easy to
 be connected to streaming server (Wowza, FMS); Support RTP multicast mode.
- Control Jack: RS422 input (compatible with RS485), RS232 input/output, RS232(cascading connection).
- Low Power Sleep Mode: Support low power sleep/awake mode, and the power consumption is less than 400mW.
- Multiple Control Protocol: Support VISCA, PELCO-D, PELCO-P protocols;
 Support automatic identification protocols.
- Multiple Presets: Up to 255 presets (10 presets via remote control).
- Al Human Detection: Built in high speed processor and advanced image processing and analysis algorithm, and real-time tracking and zone tracking modes are available.
- Multiple Application: Online-education, Lecture Capture, Webcasting, Video conferencing, Tele-medicine, Unified Communication, Emergency command and control systems, etc.

Technical Specification:

Parameters		
Image Sensor	1/2.8 inch high quality CMOS sensor	
Effective Pixel	851M, 16: 9	
Video Format	HDMI:	
	4KP30, 4KP25, 1080P30, 1080P25, 1080P29.97;	
	SDI	
	1080P30, 1080P25, 1080P29.97;	

	USB3.0
	Main Stream: YUY2/NV12:
	1920×1080/1280×720/1024×576/800×600/800×448/640×360/480×270/320×180 @10/5fps; MJPG/H264:
	3840*2160/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×4 48/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;
	Sub Stream: YUY2/NV12:
	1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@3 0/25/20/15/10/5fps;
	MJPG/H264:
	1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps;
Optical Zoom	12X Optical
Viewing Angle	H: 6.5° (N) ~70.9° (W)
Iris Value	F1.6 ~ F2.8±5%
Digital Zoom	15 X
Minimum Illumination	0.5Lux(F1.8, AGC ON)
DNR	2D & 3D
White Balance	Auto/Manual/One-push/Specified color temperature
Focus Mode	Auto/Manual/One-push
Exposure Mode	Auto, manual, shutter priority, iris priority, brightness priority
Aperture	F1.8 \sim F11, CLOSE
Shutter Speed	1/25~1/20000
BLC	On/Off
Dynamic Range	Off, 1 \sim 8
Video Adjustment	Brightness, Hue, Saturation, Contrast, Sharpness, W&B Mode, Gama Curve
SNR	>50dB

Back Panel Overview	
	HDMI, SDI, LAN(POE), USB3.0, A-IN, RS232-IN,
Interface	RS232-OUT, RS422(Compatible with RS485), DC12V Power Supply,
	Rotary Switch, Power Supply
Video Connection	HDMI, SDI, LAN, USB3.0
Video Compression	LAN: H.264, H.265
Formats	USB 3.0: MJPG, H264, H.265, YUY2, NV12
Audio Input Jack	Dual channel 3.5mm linear input

Audio Output Jack	HDMI, SDI, LAN, USB3.0
Audio Compression Formats	AAC, MP3, G.711A
LAN Port	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA,
	RTMPS, SRT, support remote upgrade, remote restart, remote reset
Control Jack	RS232-IN, RS232-OUT, RS422 compatible with RS485
Serial Port	
Communication	VISCA/Pelco-D/Pelco-P; Baud Rate 115200/38400/9600/4800/2400
Protocols	
USB Communication	UVC (Video Communication Protocols), UAC (Audio Communication
Protocols	Protocols)
Power Supply	HEC3800 Power Socket(DC12V)
Power Adapter	Input: AC110V~AC220V ; Output: DC12V/2.5A
Input Voltage	DC12V±10%
Input Currency	<1A
Power Consumption	<12W

PTZ Parameter	
Pan Move	-170°∼+170°
Tilt Move	-30°∼+90°
Pan Speed	0.1°/s~35°/s
Tilt Speed	0.1°/s~30°/s
Preset Speed	Pan: 35°/s, Tilt: 30°/s
Preset Quantity	Up to 255 preset (10 via remote control)

Other Parameter	
Storage Temperature	-10℃~+70℃
Storage Humidity	20%~95%
Working Temperature	-10℃~+50℃
Working Humidity	20%~80%
Dimension	143(L)mm*176mm(W)*169mm(H)
Weight	1.3kg
Environment	Indoors

Accessory	
Supplied Accessory	Power Supply, RS232 Control Cable, USB3.0 Cable, IR Remote
Supplied Accessory	Control, User Manual, Warranty Card
Optional Accessory	Ceiling / Wall Mount (Extra Cost)

Al Function		
Real-time tracking	The longest tracking distance can reach 6 to 7 meters, which can support the speaker to walk at a speed of 3 to 4 mph	
Zone tracking	Support setting 4 tracking areas, support horizontal -170° \sim +170°, vertical -30° \sim +90°	

Dimension:

