



4K PTZ Camera

Neod Ultra HD 4K camera is featured with advanced ISP processing technology and algorithm to provide high quality image and smooth motion. It supports H.264/H.265 encoding which makes motion video more fluent and clear under low bandwidth conditions.



For Classroom

**Empower teaching with Techar Tracking
Cameras designed to follow and focus,
making lessons clear and engaging**





For You Tube Setup

Designed for creators, this camera ensures high-quality videos and smooth setup for your YouTube channel





Auditorium Solution

Capture every moment in stunning detail with cameras designed for seamless coverage in auditoriums



Key Features



Control Interface

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



Optical Zoom Lens

112X and 5X optical zoom lens, with 70° & 80° 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 Control Protocol

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



Built-in gravity sensor

Built-in gravity sensor supports PTZ auto-flip function, easy to install.



Multiple Control Protocol

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



Ultra 4K Resolution

1/2.8 & 1/2.5 inch high quality 4K SONY CMOS sensor; 8.51 megapixel, resolution is up to 4K (3840x2160) and compatible with 1080P, 720P and other resolutions. 4K 60FPS



Multiple USB Compression Encoding Format

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



IR & Wireless Remote Control

IR remote control (default)
Wireless remote control (optional):
2.4G wireless remote control is not affected by the angle, distance or infrared interference. Far-end-control is also available.



Multiple Applications

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

Model	Neod20S	ND20S
Optical Zoom	12X	5X
FOV	Horizontal: 6.55 (tele)~ 69.4 (wide) vertical: 3.66 (tele)~ 42.8 (wide)	Horizontal: 26.51°(tele)~79.18°(wide) vertical: 15.29°(tele)~49.22°(wide)
Aperture	F1.6 - F2.8±5%	F2.0 - F2.8±5%
Image Sensor	1/2.8 Inch SONY CMOS Sensor	1/2.5 Inch SONY CMOS Sensor
Effective pixels	8.51M; 16:9	8.51M; 16:9
Video Format	<p>HDMI Video Output Format: 4KP60, 4KP50, 4KP30, 4KP25, 1080P60, 1080P50, 1080i 60, 1080i 50, 1080P30, 1080P25, 720P60, 720P50</p> <p>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: 1920×1080P30, 1280×720P30, 1024×576P30, 960×540P30, 800×448P30, 640×360P30, 640×480P30, 320×176P30</p> <p>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</p>	
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	
Storage Temperature	-10°C~+60°C
Storage Humidity	20%~95%
Working Temperature	-10°C~+50°C
Working Humidity	20%~80%
Usage	181(L)mm × 115mm(W) × 149mm(H)
Storage Temperature	Indoor

Accessories	
Standard	Power supply and adapter,RS232 Cable,USB3.0 Cable, IR remote control, User Manual
Optional	Wall / Ceiling Mount



We provide solutions for **interactive flat panels, digital standees, podiums, kiosks, digital classrooms, e-library setups, and PTZ cameras**



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