



## 24 Evoness SRL

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## EVO-PTZ-NDI



### Functions & Features

The **EVO-PTZ-NDI** series cameras have perfect functions, superior performance and rich video output interfaces; featuring advanced ISP processing algorithms; offering vivid and high resolution video with a strong sense of depth and fantastic color rendition. H.264/H.265 encoding is supported, which makes motion video more fluent and clear under lowbandwidth conditions.

### Key Features

<ul style="list-style-type: none"><li>● <b>Full HD Resolution</b> 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.</li><li>● <b>Multiple Optical Zoom Lens</b> Various models with 12x/20x optical zoom lens.</li><li>● <b>Leading Auto Focus Technology</b> Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.</li><li>● <b>Low Noise and High SNR</b> Low Noise CMOS effectively ensures high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.</li><li>● <b>Multiple video output interfaces</b> HDMI, SDI, LAN. Simultaneously output audio and video signal via HDMI, SDI and LAN. LAN interface supports POE, USB 3.0 supports dual code stream, SDI supports transmission up to 100m under 1080p60 format</li><li>● <b>AI Human Detection</b> Built-in high-speed processor and advanced image processing and analysis algorithms, users can choose real-time tracking and regional tracking according to the environment.</li><li>● <b>Quiet Pan / Tilt Movement</b> With high accuracy step driving motor, camera can pan / tilt extremely quiet and smooth.</li></ul>	<ul style="list-style-type: none"><li>● <b>Multiple Audio/Video Compression</b> Supports H.264/H.265 video compression, up to 1920x1080 resolution 60 fps; support AAC, MP3 and G.711A audio compression, 8000, 16000, 32000, 44100, 48000 sampling frequency.</li><li>● <b>Multiple Network Protocol</b> Supports ONVIF, GB/T28181, RTSP, RTMP, VISCAoverIP, RTMPS, SRT protocols; Supports RTMP push mode, easy to be connected to streaming server (Wowza, FMS); Supports RTP multicast mode.</li><li>● <b>Control Interface</b> Supports RS-232 cascade function which is convenient for installation. RS422 is compatible with RS485, RS232-IN, RS232-OUT.</li><li>● <b>Multiple Control Protocol</b> Supports VISCA, PELCO-D, PELCO-P protocols; Supports automatic identification protocols.</li><li>● <b>USB 3.0 Support Dual Coding Stream</b> Supports main stream and sub-stream, and simultaneous output; support YUY2, MJPEG, H.264, NV12, H.265 video coding format.</li><li>● <b>Built-in Gravity Sensor</b> Supports PTZ auto-flip function and easy installation.</li><li>● <b>Wide Application</b> Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.</li></ul>
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Camera Parameter		
Parameter/Model	12X	20X
Focus	3.9 -- 46.8mm	5.2 -- 98mm
FOV	6.3° (N)	3.2° (N)
	72.5° (W)	56° (W)
Aperture Value	F1.8 -- F2.4	F1.5 -- F3.0
Effective Pixels	2.07, 1/2.8-inch high-quality CMOS sensor	
Video Format	<b>HDMI/SDI:</b> 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50, 1080P59.94, 1080P29.97, 720P59.94; <b>USB3.0: main stream:</b> YUY2/NV12: 1920×1080/1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@30/25/20/15/10/5fps; MJPEG/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; <b>Sub-stream:</b> YUY2/NV12: 1920×1080/1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@30/25/20/15/10/5fps; MJPEG/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;	
Minimum illumination	0.5Lux(F1.8, AGC ON)	
DNR	2D & 3D	
AWB	Automatic, manual, one-key white balance, specified color temperature	
Focus mode	Automatic, manual, one-key focus	
Exposure mode	Auto, manual, shutter priority, aperture priority, brightness priority	
Iris value	F1.8 -- F11, CLOSE	
Shutter Speed	1/25 -- 1/10000	



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<b>BLC</b>	on/off
<b>Dynamic range</b>	Off, 1 -- 8
<b>Image adjustment</b>	Brightness, chroma, saturation, contrast, sharpness, black and white mode, gamma
<b>SNR</b>	≥50dB
<b>AI Function &amp; Performance</b>	
<b>Real-Time Tracking</b>	Maximum Tracking Range: 6-7 meters.
<b>Regional Tracking</b>	Maximum Tracking Region: 4. Support set the region within horizontal -170°~+170° and vertical -30°~+90°
<b>Interface</b>	
<b>Product Interface</b>	HDMI, LAN(POE), USB3.0(B Type Compatible with USB2.0), SDI-IN, RS232-IN, RS232-OUT, RS422 (Compatible with RS485) , Rotary Switch, DC12V Power,
<b>Video Encoding Format</b>	LAN Interface: Support main stream and sub-stream H.265 , H.264 USB3.0 Interface: main stream support YUY2, MJPG, H264, NV12
<b>Audio input interface</b>	Dual channel 3.5mm linear input
<b>Audio output interface</b>	HDMI, SDI, LAN, USB3.0
<b>Audio compression</b>	AAC, MP3, G.711A
<b>LAN interface</b>	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
<b>Network protocol</b>	RTSP, RTMP, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA, RTMPS, SRT <b>NDI</b> Support remote upgrade, remote restart, remote reset
<b>Control Interface</b>	RS232-IN, RS232-OUT, RS422 compatible with RS485
<b>Serial communication protocol</b>	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
<b>USB communication protocol</b>	UVC (video communication protocol) , UAC (audio communication protocol)



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<b>Power interface</b>	HEC3800 Power socket (DC12V)
<b>Power adapter</b>	Input AC110V-AC220V; output DC12V/2.5A
<b>Input voltage</b>	DC12V±10%
<b>Input current</b>	<1A
<b>Consumption</b>	<12W
<b>PTZ</b>	
<b>Pan rotation</b>	-170° -- +170°
<b>Tilt rotation</b>	-30° -- +90°
<b>Pan speed</b>	0.1°/s -- 100°/s
<b>Tilt speed</b>	0.1°/s -- 45°/s
<b>Preset speed</b>	Pan: 100°/s, Tilt: 45°/s
<b>Preset quantity</b>	Maximum 255 preset positions can be set(10 via remote controls)
<b>Other Parameter</b>	
<b>Storage temperature</b>	-10°C -- +70°C
<b>Storage humidity</b>	20% -- 95%
<b>Working temperature</b>	-10°C -- +50°C
<b>Working humidity</b>	20% -- 80%
<b>Dimension</b>	181mm×115mm×149mm
<b>Weight</b>	1.15kg
<b>Environment</b>	Indoor
<b>Accessory</b>	
<b>Standard accessory</b>	Power adapter, RS232 control line, USB3.0 connection line, remote control, manual
<b>Optional accessory</b>	Ceiling mounting bracket, wall mounting bracket