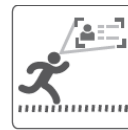


## 4M 4x IR Network Active Deterrence Mini PTZ



Smart Tracking



Starlight



WDR



Auto Day/Night



Deterrence



PoE+



IP66



H.265

## System

VSC IPT4SD4IRPOE series of professional mini PTZ, adopting latest BSI+NIR image sensor, with high quality 4x optical fast zoom lens, could deliver excellent 4M(2560x1440)@30fps image details over a medium open area. The H.265 video compression reduces bit rate down to half of H.264 without loss. With its built-in 1.5Tops AI engine, the PTZ could detect and classify max 15 objects per scene. When a trusted visitor comes closely, the camera will compare his/her face with inner database, do not trigger an alarm and could talk dual-way by built-in speaker and mic. When a stranger comes nearby, the PTZ will trigger alert. In a typical dim night, upon detecting of illegal intrusion, the camera will trace moving object, zoom fit, turn off IR light and turn on strong white light, and utter warning sound, until the object leaves out of restricted area. And then the camera will return to patrol mode-- scan 360° around to find invaders and so on. With active deterrence mode, captured invader's colorful images instead of B/W, improve confidence as court evidence; while silent patrol mode, no strong white light will disturb neighbors and community. This PTZ conforms to the ONVIF specifications ensuring interoperability between network video products regardless of manufacturers, and also complies with NDAA 2019. The PTZ has metal enclosure for main body, electric heater, could work 7/24H in public outdoor weather.

## Key Spec:

- Up to 2560x1440@30fps resolution.
- Mini illumination:
  - Color: 0.01 lux @ (F1.6 AGC ON)
  - 0 Lux with IR
- 4x optical zoom, fast and accurate
- Smart IR, facial priority exposure
- 4 IR LEDs up to 50m, 2 White LEDs up to 30m
- Built-in Mics & Speaker, bi-directional audio
- 30m for audible warnings, 8m voice record distance
- 1.5Tops AI, multiple intelligent video content analytics
- 4GB EMMC, up to 10,000 faces ID storage
- Smart tracking of human/vehicle, Active deterrence
- SD/TF card, external audio in/out, alarm in/out
- PoE+ or DC12V, easy installation
- IP66, IK10, -30°C~55°C, Aluminum Alloy+ PC/GF
- ONVIF, API and SDK, IE/NVR/VMS/Mobile App

## Application:

Featuring its excellent picture quality and good protection, meet the demand of small size of video surveillance application, this camera could work in various indoor and outdoor commercial areas for intrusion, perimeter protection and active deterrence: school, hospital, medium residential community, small parks, factories, feedlot, etc. It also could protect children away from deep swimming pool, railway-street crossing, pit, etc.

### SPECIFICATION:

Camera Module		VSC IPT4SD4IRPOE				
Image sensor	1/2.8" progressive scan CMOS(BSI+NIR)					
Mini. Illumination	Color: 0.01Lux @ (F1.6,AGC ON); 0Lux with IR					
Image setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client					
Shutter Speed	1/1 s – 1/100,000 s					
White Balance	Auto/Manual/Indoor/Outdoor					
Gain control	Auto/Manual					
Day & Night control	Auto/Manual/Black Ray* <sup>1</sup>					
Iris control	N/A					
SNR	≥52dB					
3D DNR	Auto/Manual					
AE Enhancement	BLC, HLC, WDR					
Privacy Mask	24 areas, up to 8 mask in the same frame					
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits BMP format					
OSD overlay	max 15 characters/line, 8 lines, white or red font color					
Lens						
Focus length	f= 2.8-12mm,4x fast optical fast zoom lens					
Zoom Speed	Approx. 1.6s (optical zoom, wide-tele)					
Field of View	Horizontal:97° to 31°; Vertical: 51° to 18°; Diagonal: 115° to 36°(wide-tele)					
Working distance	wide: 0.3m ~ INF; tele: 1m ~ INF					
Iris type	F1.6 ~ F3.0 (wide-tele), not DC-Iris but fixed					
IRCut Type	Switchable IRCut filter					
DORI distance	Lens	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)	
	2.8mm	68m(223.7ft)	27.1m(88.8ft)	13.6m(44.7ft)	6.8m(22.4 ft)	
	12mm	206.7m (67.8ft)	82m (269ft)	41.3m (135.6ft)	20.7m (67.8ft)	
PTZ						
Pan Range	0~355°					
Pan speed	Configurable, from 0.1~80°/s; Preset speed: 80°/s					
Tilt Range	From -5° to 90°					
Tilt Speed	Configurable, from 0.1°~ 60°/s, Preset speed: 60°/s					
Proportional Zoom	Yes					
Preset	300					
Cruise	8 cruises, up to 16 presets for each cruises					
Trace	4 traces, record time over 3 minutes for each trace					
Power off memory	Support					
Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan					
3D Positioning	Support					
PTZ Position Display	Support					
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot					
Supplement light						
IR Distance	Up to 50m, 2groups,4pcs of IR LED					
Smart IR	Yes, support facial high priority					
White light Distance	Up to 30m, 1 group, 2 pcs of White LED					
White light mode	Flush mode(double/triple brightness),interval adjustable; Torque mode(normal brightness)					
Network						
Max Resolution	2560x1440					
Main stream	25fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720)					
	30fps (2560 × 1440, 2048 × 1536, 1920 × 1080, 1280 × 960, 1280 × 720)					
Sub stream	25fps (704 × 576, 640 × 480, 352 × 288) ; 30fps (704 × 480, 640 × 480, 352 × 240)					
Third Stream	25fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288) ; 30fps (1280 × 720, 704 × 480, 640 × 480, 352 × 240)					
Video compression	Smart H.265/H.265/H.264+/H.264/MJPEG					

H.264 Standard	H.264/AVC codec BP/MP/HP, Level 5.1
H.265 Standard	H.265/HEVC codec MP, level 5.0
Video Bit Rate	64 Kbps to 16Mbps
Audio compression	G.711 A/U
Audio Bit Rate	64K bps
User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
<b>Smart Features</b>	
Basic event	Motion detection, Video tampering alarm, Exception(Network disconnected, IP address conflict, SD full, SD error)
Face recognize	Detecting max 15 faces at same scene. Detecting, tracking, capturing
Road traffic	Vehicle detecting and tracking, etc.(with limited performance)
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exitance detection, etc.
Smart Tracking	Smart tracking of human or vehicle, auto/manual (with limited performance)
Active Deterrence	Play pre-defined voice and flush strong white light upon invaders/strangers.
Dual-way talk	Support trusted visitor dual-way talk with host.
<b>System Integration</b>	
Audio Interface	1-ch audio input, for external mic in,2.0-2.4Vp-p,1K $\omega$ $\pm$ 10%; 1-ch audio output, line out, line level,impedance:600 $\Omega$ ; for external speaker
Built-in speaker	8 $\Omega$ , 2Watt. Rotate with image direction, up to 30m distance audible
Built-in mic	Built-in MIC. Rotate with image direction, up to 8m distance recordable
Alarm Interface	1CH alarm input(Dry contact); 1CH alarm output
Alarm Linkage	Alarm actions, such as Preset, Cruise, Track, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card, Send Email, etc.
Network Interface	1 RJ45 10M/100M Adaptive Ethernet (Support PoE 802.3.at)
Serial Port	No RS-485/RS-232
Storage	On-Body memory card slot, support microSD/TF, up to 256G
BNC	N/A
Reset button	Yes
Heater & Fan	Built-in 6Watt electric heater ,auto work when temperature drops under -15 $^{\circ}$ C(5F $^{\circ}$ )
Water removal	Self-clean lens window, anti-water drops and dust-repellent coating
API	ONVIF, support ViSar SDK and third-party management platform
Client	N9000 1.4.5, NVMS 2.0; and the third-party client, iOS/Android App
Web Browser	IE8-11
<b>General</b>	
Languages	16: Czech; English, German ; Hungarian ; Italian ; Japanese ; Korean ; Portuguese, Polish; Russian, Romanian, Spanish; Spanish(Mexico);Simplified Chinese; Turkish; Traditional Chinese.
Power	DC12V $\pm$ 20%,2500mA;PoE+ (802.3.at, class 3); avg 4.5Watt, max 24.5Watt (IR/White light ON + Speaker ON + PTZ working )
Working condition	-30 $^{\circ}$ C ~ 55 $^{\circ}$ C (-22 $^{\circ}$ F ~ 131 $^{\circ}$ F),Cold start at $\geq$ - 20 $^{\circ}$ C(30minutes waiting), no condensing $\leq$ 90%RH
Storage condition	-40 $^{\circ}$ C ~ 70 $^{\circ}$ C ; $\leq$ 95% RH
Shield Material	Main body: Aluminum Alloy ; Bubble: Plastic+GlassFiber 15%
Protection	IP66, 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	$\Phi$ 130mm x 162mmH ( $\Phi$ 5.1'x 6.4')
Weight	Approx. 1 Kg (2.2lb.)
Certification	IP66,IK10,ROHS,CE,FC

Dimensions: (mm)

