

4M 4x IR Network Active Deterrence Mini PTZ

Smart
Tracking

Starlight



WDR

Auto
Day/Night

Deterrence



PoE+



IP66



H.265

System

VSC IPT4SD4IR50 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 IPT4SD4IR50 | | | | |
|----------------------|---|-----------------|-----------------|--------------------|-------------------|--|
| 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 ^{*1} | | | | | |
| 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 |
| Smart Features | |
| 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. |
| System Integration | |
| Audio Interface | 1-ch audio input, for external mic in,2.0-2.4Vp-p,1K ω \pm 10%; 1-ch audio output, line out, line level,impedance:600 Ω ; for external speaker |
| Built-in speaker | 8 Ω , 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 |
| General | |
| 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 | Φ 130mm x 162mmH (Φ 5.1'x 6.4') |
| Weight | Approx. 1 Kg (2.2lb.) |
| Certification | IP66,IK10,ROHS,CE,FC |

Dimensions: (mm)

