

4MP Mini PTZ Network Camera

TVT-TD-8140IEN

Compact Palm Sized PTZ with Smart Tracking



Arrowhead
Alarm Products



Features

- 4MP Ultra-clear video up to 2688x1520 resolution
- Low-light colour vision down to 0.02 lux
- 3x optical zoom for detailed close-ups
- Fast pan & tilt up to 80° / second
- Smart IR for clear night images
- Built-in microphones for audio capture
- AI detection for faces, people & vehicles
- Smart tracking & instant alerts
- Micro SD card support for local storage
- Simple setup with PoE or DC/12V power
- Weatherproof & vandal resistant (IP67 & IK10)
- Ø 116.14mm x 75mm

Compact Size

Maximum Clarity

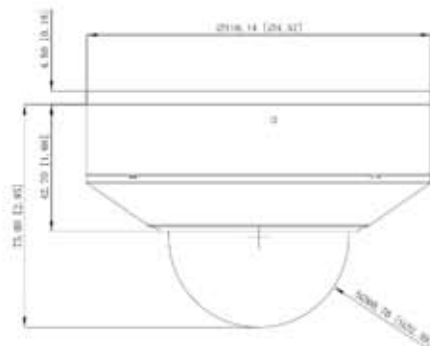


Camera Module	TVT-TD-8140IEN				
Image sensor	1/2.7" progressive scan CMOS with BSI and NIR+ technology				
Max Resolution	2688x1520(4.08MP)				
Mini Illumination	Color:0.02 Lux @(F1.6,AGC ON); B/W: 0.004 Lux @(F1.6, AGC ON); 0 Lux with IR				
Image setting	Saturation, Brightness, Contrast, Sharpness, AGC, and AWB adjusted by client				
Shutter Speed	50Hz: 1/25s~1/25,000s, 60Hz: 1/30s~1/30,000s				
White Balance	Auto/Manual/Indoor/Outdoor				
Gain	Auto/Manual				
Day & Night	Auto/Manual				
Aperture control	N/A				
S/N Ratio	≥52dB				
3D DNR	Auto/Manual				
AE Enhancement	BLC, HLC, DWDR(suggest in still mode)				
Digital Zoom	8X				
Privacy Mask	4 Programmable privacy masks				
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits JPG format				
Font overlay	Max 15characters per line, 8lines max, white color or red color				
OSD	Time, Date, Device Name, Zoom ratio, Direction(N/S/E/W),PTZ Status, etc.				
Lens					
Focus length	f=3.18mm~7.42mm(wide-tele) ±5%, about 3x optical zoom AF lens				
Zoom Speed	1 second(Wide->tele)				
Field of View	Horizontal: 113.6°(W)-44.3°(T); Vertical :59.6°(W)-24.9°(T) ; Diagonal:137.4°(W)-50.8°(T); ±5%				
Mini View Distance	40cm				
Aperture Range	F1.6 ~ F2.7 (wide-tele)±10%				
IR Cut filter	Switchable ICR				
DORI table	Lens	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)
	f=3.18mm	62.8m(206 f.t)	24.9m(81.7 f.t)	12.56m(41.2f.t)	6.28m(20.6 f.t)
	f=7.42mm	148.4m(487 f.t)	58.89m(193 f.t)	29.68m (97.4 f.t)	14.84m(48.7f.t)
PTZ					
Pan Range	0~355°				
Pan speed	Configurable, from 0.5~80°/s; Preset speed: 80°/s				
Tilt Range	From 15°to 90°(auto flip at 90°) . (±1°)				
Tilt Speed	Configurable, from 0.5°~ 80°/s, Preset speed: 80°/s				
Pan/Tilt intervals	Default 300seconds, min 120seconds, max 3600 seconds. Customized per request				
Proportional Zoom	Yes				
Preset	360				
Cruise	8 cruises, up to 16 presets for each cruises				
Trace	N/A				
Power off memory	Support				
Action mode	Preset/Cruise(No trace or scan)				
3D Positioning	Support				
PTZ Position Display	Support				
Schedule Task	Preset/Cruise/Dome reboot				
Supplement Light					
IR Distance	Up to 20m, 4pcs 850nm				
Smart IR	Yes				
Network					
Main stream	25fps:(2688×1520, 2560×1440, 2048×1536, 1920×1080, 1280×960, 1280×720); 30fps:(2688×1520, 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 (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)				



Video compression	Smart H.265+/H.265/H.264+/H.264/MJPEG
H.264 Encoder	H.264/AVC codec BP/MP/HP, level 5.1
H.265 Encoder	H.265/HEVC codec MP, level 5.0
Video bit rate	H.264: 128kbps~16,384 kbps; H.265: 51 kbps~12,288kbps
Audio Compression	G.711 A/U
Audio bit rate	64Kbps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, P2P
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
API	ONVIF G/S/T, support TVT SDK and third-party management platform
Client	TVT N9000 1.4.7, TVT NVMS 2.0; and the third-party client, free iOS and Android App
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plugin free
Smart Features	
Basic event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, SD full, SD error)
Face recognize	(Default off) human face detection, capture and face comparison.
Road traffic	Vehicle detecting and tracking, etc.
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, etc. More VCA per request.
Smart Tracking	Smart tracking of human or vehicle, auto/manual
System Integration	
Audio Interface	1CH audio input, 2 to 2.4v[p-p] 1KΩ ±10%,bare Wire; 1CH audio output (line out), impedance: 600Ω,bare wire
Built-in mic	1-ch mic
Built-in Speaker	N/A
Audio device switch	Default use built-in MIC, manually switch to external
Alarm interface	1CH alarm input(DRY Connection); 1CH alarm output
Alarm Linkage	Alarm actions, such as Preset, Cruise, 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)
Storage Slot	Card chamber, support microSD/TF card, up to 256GB
Serial interface	No RS485/RS232
Auxiliary video	N/A
Reset button	Yes
Heat and Fan	N/A
Water removal	Dust and Water-resistant coating for dome cover
General	
Languages	Czech; English; German; Hungarian ; Italian ; Japanese ; Korean ; Portuguese; Polish; Russian; Romanian; Spanish; Spanish(Mexico); Simplified Chinese ; Turkish; Traditional Chinese , etc.
Power	DC12V±20% 2000mA or PoE(802.3.af), avg 7Watt,max 12Watt (IR + PTZ working)
Working condition	-30°C ~ 60°C (-22°F ~ 140°F) IR off, -30°C ~ 40°C IR on; Cold start>- 20°C(1Hour waiting), ≤90%RH
Storage condition	-40°C ~ 60°C ; ≤ 95% RH
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Shield Material	Main body: Aluminum Alloy(ADC12); Bubble: Polycarbonate
Dim& Net weights	∅ 116mm x 75mmH (∅ 4.56"x 2.95"), Approx. 463g(1 lb.)
Certification	IP67,IK10(include lens bubble), ROHS,CE,FC,UKCA,KC,BIS

Dimensions



TVT-TD-8140IEN

Features you can enjoy



Compact & Robust

Ultra HD clarity

Smart PTZ control

**AI-powered detection
& tracking**

Ultra-slim, IK10 vandal-resistant, IP67 weatherproof

4MP 2688x1520 resolution with colour night vision
down to 0.02 lux

Pan/tilt up to 80°/s, presets, and cruise remotely

Faces, people, vehicles, and smart alerts

Suitable for

Home

• Small Businesses

• Offices

• Retail Stores

Smartphone App SuperCam Plus

Search/Playback



General Settings



Select Camera



Single Camera View



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