4MP 40X IR 350m Hybrid Smart-tracking PTZ
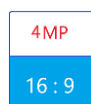
Hybrid | **Ultra HD** | **VCA** | **Smart tracking**

Perimeter | **PoE++** | **IP67** | **350m**

NDAA Compliant · ONVIF · RoHS CE FC

IP-5PT4IE3-40X-2

System

TD-8543IE3N(PE/40M/AR35) PTZ camera which adopt a powerful 40x optical zoom lens, could deliver ultra H.D. 4MP image over a wide open area. The H.265 video compression reduces bit rate down to 50% of H.264 without loss. **The IP-5PT4IE3-40X-2 variant** has secondary analog output(TVI/CVI/AHD) at 4MP 30fps. With their built-in 1.5Tops AI engine, the PTZ could detect and classify max 15 objects per scene. When any of them intrude restricted areas, the PTZ camera will trace, zoom fit in center of screen, snap and record and trigger alert. The PTZ model is completed new design for AI tracking application, for 540°/s extremely fast speed, dual belts, gear-box driven and closed-loop position feed-back. The IR brightness is enhanced 200% ,with F1.2 large aperture lens, which improve night vision distance beyond 300m. The PTZ conforms to the ONVIF, Pelco, COC and VISCA protocols, ensuring interoperability between surveillance video products regardless of manufacturers, and also complies with NDAA 2019. The TD-8543xIE3N PTZ has built-in turbo fan and heater which is suitable for 7/24H work in outdoor weather.

Key Spec:

● 1/2.7"progressive CMOS sensor(BSI+NIR+)

● Up to 4MP@30fps resolution

● Mini illumination:

    Color: 0.005 lux @ (F1.2 AGC ON)

    0 Lux with IR

● 40x(4.5-180mm) fast optical zoom and accurate focusing

● WDR, 3D DNR, Smart IR.

● Intelligent Video content analytics

● Smart tracking of human/vehicle

● Smart detection and perimeter protection

● ONVIF, API and SDK

● IP67,-40°C~65°C, Aluminum Alloy & Plastic

● PoE++ and DC24V

● Optional TVI/AHD/CVI Secondary output

● Optional Gyro based EIS option

Application:

Wide range area intrusion, perimeter protection and alarm and smart-tracking: such as airport, express way, parks, scenic spots, stations and venues, industrial park.

SPECIFICATION:

Camera Module	IP-5PT4IE3-40X-2		IP-5PT4IE3-40X-2
Image sensor	1/2.7″ BSI+NIR progressive scan CMOS		
Mini. Illumination	Color：0.005Lux @ (F1.2, AGC ON)；B/W：0.001Lux @(F1.2, AGC ON); 0 Lux with IR		
Image setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client		
Shutter Speed	50Hz: 1/25 s – 1/25,000 s; 60Hz: 1/30s-1/30,000		
White Balance	Auto/Manual/Indoor/Outdoor		
Gain control	Auto/Manual		
Day & Night control	Auto/Manual ,time schedule		
Iris control	Auto/Manual		
SNR	≥52dB		
3D DNR	Auto/Manual		
AE Enhancement	BLC, HLC, WDR		
Privacy Mask	4 areas, up to 4 mask in the same frame		
EIS	Optional Built-in gyro sensor for electrical image stable within 30x-40x（TBC）		
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		
OSD Menu	N/A		including all camera parameters and settings
Lens			
Focus length	f=4.5 ~ 180mm lens, 40x optical zoom		
Zoom Speed	Approx. 5.2s (optical zoom, wide-tele)		
Field of View	H: 62.4° ~1.9°; V: 35.3° ~ 1° ; D: 70.24° ~ 2.1° (wide-tele)		
Working distance	wide: 1.0m ~ INF; tele: 1.5m ~ INF		
Iris Property	F1.2 ~ F3.5 (wide-tele); DC-IRIS (hall sensor ,16Stops)		
IRCUT type	Removable IRCUT filter		

	Focus length	Detect(25px/m)	Observe(63px/m)	Recognize(125px/m)	Identify(250px/m)
DORI distance	f=4.5mm	90m (295 f.t.)	35.71m (117 f.t.)	18m(39 f.t.)	9m(29.5 f.t.)
	f=180mm	3060m(10039 f.t.)	1428.5m(4687 f.t.)	720m (2362 f.t.)	360m(1181 f.t.)

PTZ	
Gimbal	Vertically: dual belts for backup ,Horizontally: Gear-Box, 1024 steps encoder
Pan Range	360°endless
Pan speed	Configurable, from 0.05°-450°/s; Preset speed: 540°/s
Tilt Range	From -20° to 160°,auto flip
Tilt Speed	Configurable, from 0.05°~ 270°/s, Preset speed: 360°/s
Proportional Zoom	Yes
Preset	360
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, Software set or hardware auto detection, by built-in gyro sensor. TBC.
PTZ Position Display	Support
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
IR	
IR Distance	350m /1148 f.t., 8pcs 4 groups of dual stacks IR Arrays
Smart IR	Yes
Network	
Max Resolution	2880x1620 ?(16:9 aspect ratio)
Main stream	50Hz: 25fps: 2880x1620, 2560x1440,1920×1080,1280×960,1280×720, 60Hz: 30fps: 2880x1620, 2560x1440,1920×1080,1280×960,1280×720
Sub stream	50Hz: 25fps: (704 × 576, 640 × 480, 352 × 288); 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)

Third Stream	50Hz:25/50fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)
	60Hz:30/60fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video compression	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 8Mbps
Audio compression	G.711 A/U
Audio Bit Rate	64K bps
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP,DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, DHCP, PPPoE
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
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, Unattended baggage detection, Object removal detection, etc.
Smart Tracking	Smart tracking of human or vehicle, auto/manual
System Integration	

Alarm Interface	1 Alarm input(Dry contact); 1 Alarm output	
Audio Interface	1 audio input, line level, 2.0-2.4Vpp,impedance 1KΩ; 1 audio output, line level, impedance,600Ω	
Alarm Linkage	Alarm actions, such as Preset, Cruise, Trace, 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++	
SD Card Slot	One MicroSD slot and chamber, up to 256G	
Built-in Speaker & Mic	N/A	
RS 485	N/A	Half-duplex mode ,support Titanium-VISCA,Pelco-P/D protocol
BNC		TVI4.0/AHD2.0/CVI/CVBS, Support COC protocol
Mode Switch		12Bits ,support baud rate, address, TVI/AHD/CVI mode
Reset button	Yes	
Heater	Yes	
Fan	Yes	
Water removal	Remove water-drops by quick spinning	
API	ONVIF, support Titanium SDK and third-party management platform	
Client	Titanium NVR,NVMS; and the third-party client	Titanium DVR, NVR,NVMS; and the third-party client
Web Browser	IE8-11	IE8-11
General		
languages	Czech; English, German ; Hungarian ; Italian ; Japanese ; Korean ; Portuguese, Polish; Russian, Romanian, Spanish; Spanish(Mexico); Simplified Chinese; Turkish; Traditional Chinese. Etc.	
Power supply	DC24V±25% ,PoE++ (802.3.bt), max 34W include IR ON+PTZ working	
Working condition	-40°C ~ 65°C (-40°F ~ 149°F), IR off; -40°C ~ 45°C(-40°F ~ 113°F),IR on; Cold start at - 30°C; 90%RH	
Storage condition	-40°C ~ 70°C ; ≤ 95% RH	
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection	
Material	Aluminum Alloy + Plastic	
Dimensions	Φ 300mm × 197mm (Φ11.8 inch × 7.75 inch)	
Net Weight	Approx. 4.5 Kg (9.92 lb.) TBC	
Certification	IP67,IK10(including glass window), ROHS, CE, FC	

Ordering information:

IP-5PT4IE3-40X-2	4MP 40X Starlight IR 350m Hybrid Smart-tracking PTZ Camera,IP67/IK10,DC24V/PoE++,not include power adaptor and bracket

IP-5PT4IE3-40X-2	4MP 40X Starlight IR 350m Network Smart-tracking PTZ Camera,IP67/IK10,DC24V/PoE++,not include power adaptor and bracket

Dimensions(mm):