



VTD-8543AIE3N(PE/25M/AR30)
VTD-8543AIE3N(PE/32M/AR30)
VTD-8543AIE3N(PE/40M/AR35)



HDR



Perimeter



4MP



PoE+



VCA



IP67



Smart tracking



300-350m



System:

VTD-8543AIE3N, the 3rd gen 5inch AI PTZ camera series, which adopts a high quality 25x, 32x or 40x optical zoom lens, and high computing AI SOC, could deliver excellent 2560×1440@30fps image details over a wide open area. The PTZ camera can detect max 15 objects per scene and classify human/vehicles from 2m to 873m/1086m/1429m separately in radius. When any of them intrude restricted area, the camera will trace, zoom fit in center of screen, snap and record and trigger alarms until object disappeared, greatly improving surveillance efficiency.

The 5inch Gen3 PTZ improves many aspects to further utilize AI capacity. The revised gimbal system is up to 360°, which could automatically track express fast large objects at 300km/h within several miles distance. The rotation mechanics is enforced to endure over 10 millions times for long-time heavy usage. The 3rd gen PTZ adopts black-ray image and new stacked IR technology, which filter all the intrusive lights and focusing on human and vehicles themselves, thus it could track and recognize human details within hundreds of meters, challenging the most complex environment, whatever it is bright sun-shrine or in pitch black, snowy or rainy, strong headlights of cars and street lamps, etc.

With competitive price, excellent picture quality and strong protection, the camera could meet the demand of 7×24Hour working in harsh weather for professional surveillance market.

Key Spec:

- Ultra fast rotation and tracking speed and over 10millions of tracking life circles.
- Superior low light performance
- Long IR supplement light distance
- 1.5Tops Deep-learning engine, support human/vehicles detection, auto-tracking
- IP67 Water immersion /true IK10 glass/6KV Surge protection,7x24H harsh weather
- Stable supply-chain, long product life circle
- Confirms to data protection regulations of major countries.

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. Suggestion installation: at 5-10m in height.

SPECIFICATION:

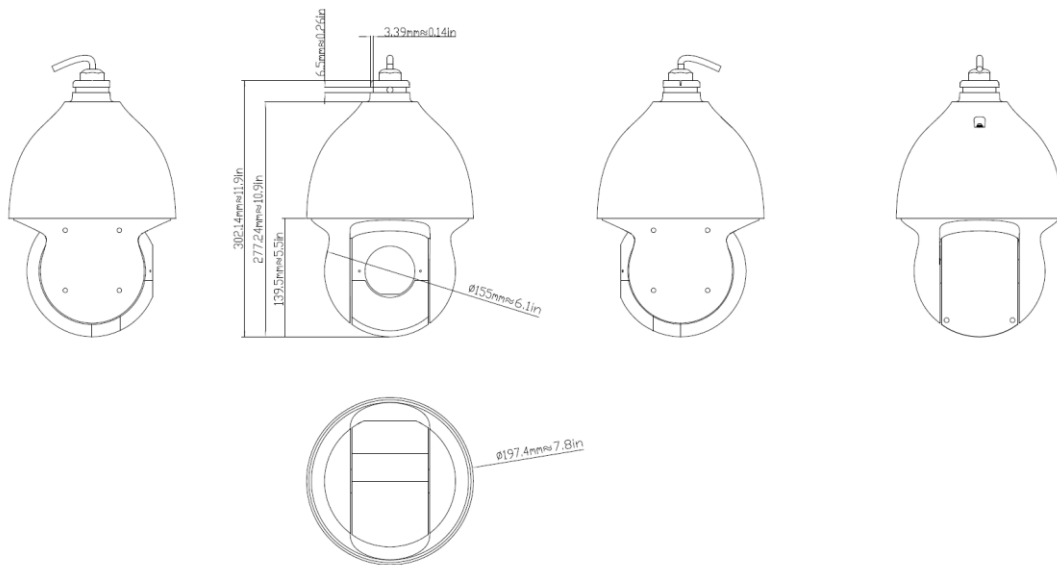
Camera Module		VTD-8543AIE3N(PE/25M/AR30)		VTD-8543AIE3N(PE/32M/AR30)		VTD-8543AIE3N(PE/40M/AR35)							
Image sensor		1/2.8" progressive scan CMOS image sensor, BSI and NIR++,dual gain											
Max resolution		2560x1440											
Mini. Illumination		Color:0.001Lux@(F1.55, AGCON) B/W:0.002Lux@(F1.55, AGC ON); 0 Lux with IR		Color:0.01Lux@(F1.65, AGCON) B/W:0.002Lux@(F1.65, AGC ON); 0 Lux with IR		Color: 0.005 Lux@(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		60Hz: 1/30s – 1/30,000s@30fps; 50Hz: 1/25s~1/25,000s@25fps											
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											
Digital Zoom		8X											
EIS		N/A											
Privacy Mask		4mask. (Ver 5.1.3 update:24 programmable polygon privacy masks, color or mosaic configurable)											
Picture overlay		Logo picture could be overlaid on video with 128×128pixels, 24bits format											
OSD overlay		Max 15 characters/line, 8 lines, white or red font color											
Lens		VTD-8543AIE3N(PE/25M/AR30)		VTD-8543AIE3N(PE/32M/AR30)		VTD-8543AIE3N(PE/40M/AR35)							
Focus length		f=4.8-120mm, 25x optical zoom		f=4.8-154mm, 32x optical zoom		f=4.5-180mm, 40x optical zoom							
Zoom Speed		Approx. 3.6s		Approx. 4.4s		Approx. 5.2s							
Field of View (W-T, ±5%)		Horizontal: 57.6 °~ 2.5 °; Vertical: 34.4 °~ 1.4 °; Diagonal: 64.5 °~2.9 °		Horizontal: 59.38 °~ 2.28 °; Vertical: 35.74 °~ 1.29 °; Diagonal: 66.28 °~2.61 °		Horizontal: 59.1 °~1.8 °; Vertical: 38.4 °~ 1.1 °; Diagonal: 6.9 °~ 2.1 °							
Image distance		Wide: 1.0m ~ INF; tele: 1.5m ~ INF											
Aperture Range		F1.55~F3.8(W-T)		F1.65-F4.70(W-T)		F1.2-F3.5(W-T)							
Iris Type		DC_IRIS											
IRCut type		Removable IRCF, absorbing type, reducing image flare/ghost		Removable IRCF, reflection type		Removable IRCF, absorbing type, reducing image flare/ghost							
DORI table	Focus length	f=4.8mm		f=120mm		f=4.5mm		f=180mm					
	Detect	106.6m(349.7f.t.)		2200m(7218 f.t.)		106.6m(349.7f.t.)		2736m(8976 f.t.)		99.6m(326.8 f.t.)		3600m(8126.6f.t.)	
	Observe	42.3m(138.8 f.t.)		873m(2864.3 f.t.)		42.3m(138.8 f.t.)		1085.7m(3562 f.t.)		39.5m(129.7 f.t.)		1429m(3250.7 f.t.)	
	Recognize	21.3m(69.9 f.t.)		440m(1443.6 f.t.)		21.3m(69.9 f.t.)		547.2m(1795.3f.t.)		19.9m(65.4 f.t.)		720m(1625.3f.t.)	
	Identify	10.7m(35 f.t.)		220m(721.8 f.t.)		10.7m(35 f.t.)		273.6m(897.6f.t.)		10m(32.7 f.t.)		360m(812.7 f.t.)	
PTZ													
Pan Range		360 °endless											
Pan speed		Configurable, from 0.1~360 °s; Preset speed: 330 °s											
Tilt Range		From -25 °to 155 °, auto flip at 90 °											
Tilt Speed		Configurable, from 0.1 °~210 °s, Preset speed: 180 °s											
Proportional Zoom		Yes											
Preset		360											
Cruise		8 cruises, up to 16 presets (ver5.1.3 update:32presets) for each cruises											
Trace		4 traces, record time over 3 minutes(ver5.1.3 update: 10minutes) for each trace											
Power off memory		Support											
Action mode		Preset/Cruise/Trace/Auto Scan/Random Scan											
3D Positioning		Support											
PTZ status display		Support											
Schedule Task		Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot											
IR		VTD-8543AIE3N(PE/25M/AR30)				VTD-8543AIE3N(PE/32M/AR30)				VTD-8543AIE3N(PE/40M/AR35)			
IR Distance		300m (984.3 f.t.)				300m (984.3 f.t.)				350m (1312.3 f.t.)			
IR type		8pcs of 4W 855nm IR Array,4groups											

Smart IR	Yes		
Network			
Main stream	50Hz: 25fps: 2560 × 1440, 1920×1080, 1280×960, 1280×720; 60Hz: 30fps: 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: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (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 16Mbps		
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, P2P, RTMP		
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 , 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, open per request)Face detection, capturing, comparison. Max 15 faces per scene		
Road traffic	Vehicle detecting and tracking. CPL will be available at ver5.1.3		
Smart Detection	Tripwire, Bi-directional tripwire, Illegal intrusion detection, Region entrance detection, Region exiting detection, etc. More VCA will be available at ver5.1.3		
Smart Tracking	support 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 256GB		
Built-in Speaker& Mic	N/A		
RS485	N/A		
BNC	N/A		
Reset button	Yes		
Electric Heater & Fan	Yes		
Water removal	Remove water-drops by quick spinning		
Demist	Active electric heating and air loop		
General	VTD-8543AIE3N(PE/25M/AR30)	VTD-8543AIE3N(PE/32M/AR30)	VTD-8543AIE3N(PE/40M/AR35)
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% 1500mA(AC24V is N/A, per request)		
	PoE+ (802.3.at), avg. 12W, max 24W,include IR 8W	PoE+ (802.3.at), avg. 12W, max 24W, including IR 8W	PoE++ (802.3.at), avg. 12W, max 24W, including IR 8W
Working condition	-40 ℃ ~ 65 ℃ (-40 ℉ ~ 149 ℉), IR off; -40 ℃ ~ 45 ℃, IR on; Cold start at - 30 ℃; 90%RH		
Storage condition	-40 ℃ ~ 70 ℃ ; ≤ 95% RH		
Protection	6000V Lightning Protection, Surge Protection and Voltage Transient Protection		
Shield Material	Aluminum Alloy(ADC12); Polymer(PC+GF15%)		
Dimensions	Φ 197mm × 302mm (Φ7.8 inch × 11.9 inch)		
Net Weight	Approx. 2.8 Kg (6.17 lb.)	Approx. 2.82 Kg (6.22 lb.)	Approx. 2.9 Kg (6.4 lb.)
Certification	IP67, IK10(including glass window), ROHS, CE, FCC, KC, BIS, UKCA, UL		

Ordering information:

VTD-8543AIE3N(PE/25M/AR30)	4MP 25X IR 300m PoE Network AI NDAA 5inch Speed PTZ Camera, IP67/IK10, DC24V/PoE+,not include power adaptor &bracket
VTD-8543AIE3N(PE/32M/AR30)	4MP 32X IR 300m PoE Network AI NDAA 5inch Speed PTZ Camera, IP67/IK10,DC24V/PoE+,not include power adaptor &bracket
VTD-8543AIE3N(PE/40M/AR35)	4MP 40X IR 350m PoE Network AI NDAA 5inch Speed PTZ Camera, IP67/IK10,DC24V/PoE+,not include power adaptor &bracket

Dimensions(mm/inch):



Accessories(optional):



VTD-YZJ0321
Wall mounting bracket



VTD-YZJ0321+VTD-YZJ0501
Pole mounting bracket



VTD-YZJ0321+VTD-YZJ0601
Corner mounting bracket



VTD-YZJ0807
Pendant mounting bracket



VTD-YZJ0311
Wall mounting bracket
with junction box



VTD-YZJ0312
Pole mounting bracket
with junction box



VTD-YZJ0313
Corner mounting bracket
with junction box



FJ-SW20172402500
DC24V2.5A Supply



VTD-B902
PoE++(60W)Midspan



VTD-K23
PTZ Keyboard