

TD-8423IS3N

AI PTZ

2MP 25X IR Network PTZ



TD-8423IS3N (PE/25M/AR30)



System

TD-8423IS3N(PE/25M/AR30), is the 3rd generation of AI smart-tracking PTZ camera which adopts a high quality 25x optical zoom lens, and high computing AI SOC, could deliver top-notch 1920x1080@30fps image details over a wide-open area. The PTZ camera can detect max 17 objects per scene, classify human/vehicles within 600m in radius, when any of them intrude restricted area, the camera will trace, zoom fit in center of screen, snap and record and trigger alert until object disappeared. This new generation of PTZ improved the sensitivity, dynamic range and night vision distance greatly. It could bring up vivid color image in most areas, without switching to IR night mode or WDR/BLC/HLC. Even in the pitch-black environment, it could capture human appearance or behaviors up to 300m at court evidence level. The PTZ has H.265 video compression which reduces bit rate down to 50% of H.264 without loss. And it conforms to the ONVIF, ensuring interoperability between surveillance video products regardless of manufacturers. The PTZ confirms to most security regulation and data protection policy. With competitive price, excellent picture quality and good protection, the camera could meet the demand of small size of surveillance application.

Key Spec:

- Excellent low light performance
- Super long IR light supplement distance for a small PTZ
- Deep-learning engine, support human/vehicles detection, auto-tracking
- Small body, good protection,7x24Hours outdoor weather
- Stable supply-chain, long product life circle,
- Confirms to data protection regulations of major countries.

Application:

Intrusion, perimeter protection and alarm for a large area, such as parks, scenic spots, stations and venues, industrial park. Suggestion installing height: about 5-15m.



SPECIFICATION:

Camera Module						
Image sensor	1/2.8" progressiv	e scan CMOS image sensor, w	rith BSI and NIR++			
Max resolution	1920x1080					
Mini. Illumination	Color: 0.00125 Lux @ (F1.6, AGC ON); B/W: 0.00025Lux @(F1.6, AGC ON); 0Lux with IR					
Image setting	Flip, Mirror, Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client					
Shutter Speed	60Hz: 1/30s – 1/30,000s; 50Hz: 1/25s~1/25,000s					
White Balance	Auto/Manual/Inc	loor/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, 128dB WDR/HDR					
Digital Zoom	16X					
Electronical Stabilizer	N/A					
Privacy Mask	4 areas, up to 8 mask per request.					
Picture overlay	Logo picture could be overlaid on video with 128x128pixels,24bits format					
OSD overlay	Max 15 characters/line, 8 lines, white or red font color					
Lens						
Focus length	f=4.8-120mm lens,25x optical zoom					
Zoom Speed	Approx. 3.6s (optical zoom, wide-tele)					
Field of View	Horizontal: 54 ° ~ 4 °, Vertical: 32 ° ~ 2.3 °Diagonal: 64.5 ° ~ 4.6 °.(Wide-Tele), ±5%					
Image distance	Wide: 1.0m ~ INF; tele: 1.5m ~ INF					
Aperture Range						
Iris Type	Max F1.6 DC_IRIS					
IRCut type						
псси туре	Removable IRCut filter(absorbing type glass to remove strong light image flare and blur) Focus length Detect Observe Recognize Identify					
DORI distance	f=4.8mm	73.5m(241.14 f.t.)	29.16m(95.67 f.t.)	14.7m(48.22 f.t.)	7.35m(24.11 f.t.)	
	f=120mm	ì		` `	·	
PTZ	1–12011111	1517.4m(4978.3f.t.)	602.2m(1975.7 f.t.)	303.4m(92.5 f.t.)	151.7m(46.25 f.t.)	
Pan Range	360 endless					
Pan speed						
Tilt Range	Configurable, from 0.1~200 %s; Preset speed: 240 %s					
Tilt Speed	From -10 °to 90 °, auto flip Configurable, from 0.1 °~200 %, Preset speed: 240 %					
Proportional Zoom						
	Yes					
Preset	2 amises up to 16 presets for each arrive					
Cruise	8 cruises, up to 16 presets for each cruise					
Trace	4 traces, record time over 3 minutes for each trace					
Power off memory	Support C. i. T. A. C. T. I. G. T. I. G.					
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					
IR						
IR Distance	300m (984.3 f.t.)					
Smart IR	Yes					
Network						
Main stream	50Hz: 1920×1080, 1280×960, 1280×720 @25fps					
	60Hz: 1920×1080, 1280×960, 1280×720 @30fps					



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AI PTZ

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Third Steam 66Hz: 1920 × 1980, 1280 × 960, 1280 × 720, 764 × 480, 640 × 480, 532 × 240 ⊕ 36ps H. 264 Standard H. 265/HAC codes BP APPHPL Evel 5.1 H. 265 Standard H. 265/HEVC codes BP APPHPL Evel 5.0 Video Bit Rate 64Byts to 16Mbyts Audio Bit Rate 64Byts to 16Mbyts Audio Dit Rate 64Byts to 16Mbyts Audio Bit Rate 64B byts User / Hoat Up to 16 sears, 3 levels, 480, 213, QaS, FTP, SMTP, UPAP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/P, UDP, DDLCP, PPPG, IPP User / Hoat Up to 16 sears, 3 levels, 48 daministrator, Advanced User and Normal User User authentication (D and PW), Hot suttentication (MAC address); HTTPS enception, IEEE802.1s port-based network access centres and properties of the 18 darks stricted. API ONVIF GST, support TVT SDK and third-purty management platform Client TVT N9000 14.3, TVT SVMS 212; and the third-purty dient, free 160S and Android App Basic event Motion detection, Video tampering alarm, Exception(Network disconnected, IP address conflict, SD full, SD croop) Face receptive Default off (Per repues) Road Tracking Value's detection, gand tracking Smart Detection Tame interface 1 Alarm input (Dry contact); Alarm output Audio Interface </td <td></td> <td></td>						
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H.265 Standard H.265 HEVC codec MP, level 5.0 Video Bit Rate 61Kbpts to 16kbpts Andio Compression G.711 A/U Andio Bit Rate 64K bps Protocols HTTP, HTTPS, IPs-4Flv-6, 802.1x, QeS, FTP, SMTP, UPsP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCPIP, UDP, DMCP, PPPGE, PZP User / Host Up to 10 users, 3 levels: Administrator, Advanced User and Normal User Security Measures User ambentication of Mod Pky), Host authentication (MAC address); HTTPS encryption, IEEE802.1s port-based network access control: IP address filtering API ONVIF G.877, support TVT SDK and third party management platform Client TVT NSOOD 1.45, TVT NSNS 2.0; and the third party cinear, free iOS and Android App Web Brower IBS-11 with plug in; Edge, Chrome, Firefox with plugin free Smart Feature Default off (Per request) Basic event Default off (Per request) Road traffic Vehicle detecting and tracking Smart Tracking Transferior of priving, Hegal intrusion detection, Region entrunce detection, Region exiting detection, etc. More VCA per request. Smart Tracking 1 Alarm input (Dry contact): 1 Alarm output Adroit Interface 1 Alarm input (Dry contact): 1 Alarm output Almosteries 1 Alarm ac						
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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, Track, Memory Card Video Record, Trigger Recording, Upload to FTP/Memory Card, Send Email, etc. Network Interface 1 R145 10M/100M Adaptive Ethernet, Support PoE+ SD Card Slot 0 McroSD slot, up to 256G BNC N/A Bwilt-in Speaker &Mic N/A Reset button Yes Built-in Heater &Fan Yes Water removal Support (eyebrow, anti-rain-drops lotus coating glass, quick-spinning) Frost removal Hot air loop, desiccant, vacuumize General Czech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc. Power Supply DC12V ±25%, 3000mA, PoE (802.3 at, class 3), max 22W include IR ON+PTZ working Working condition 40°C ~ 60°C (*44°F ~ 149°F) IR OFF; ~ 40°C ~ 50°C (40°F ~ 113°F) IR ON; Cold start at ~ 30°C (0.5-1 hour waiting); 90% RH Storage condition 40°C ~ 60°C (*5	Smart Detection					
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Alarm Interface 1 Alarm input (Dry contact); 1 Alarm output Audio Interface 1 audio input, line level, 2.0-2.4 Vpp, impedance $1KΩ$; 1 audio output, line level, impedance, 600Ω Alarm Linkage Alarm actions, such as Preset, Cruise, Track, Memory Card Video Record, Trigger Recording, Upload to FTP/Memory Card, Send Email, etc. Network Interface 1 R145 10M/100M Adaptive Ethernet, Support PoE+ SD Card Slot One MicroSD slot, up to 256G R5485 N/A BNC N/A Built-in Speaker &Mic N/A Reset button Yes Built-in Heater &Fan Yes Water removal Support (eyebrow, anti-rain-drops lotus coating glass, quick-spinning) Frost removal Hot air loop, desiccant, vacuumize General Czech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc. Power Supply DC12V±25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ working Working condition $40 \text{C} \sim 65 \text{C} (44 \text{F} \approx 149 \text{P}) IR OFF; 40 \text{C} \sim 50 \text{C} (40 \text{F} \approx 113 \text{F}) IR ON; Cold start at -30 \text{C} (0.5 \text{H}) to unwaiting); 90%RH Storage condition 40 \text{C} \sim 60 \text{C} < 95\% RH Protection 60000 Lightning Protect$						
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Alarm Linkage Send Email, etc. Network Interface 1 RJ45 10M/100M Adaptive Ethernet, Support PoE+ SD Card Slot One MicroSD slot, up to 256G RS485 N/A BNC N/A Built-in Speaker &Mic N/A Reset button Yes Built-in Heater &Fan Yes Water removal Support (eyebrow, anti-rain-drops lotus coating glass, quick-spinning) Frost removal Hot air loop, desiccant, vacuumize General Czech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc. Power Supply DC122 ±25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ working Working condition 40 °C ~ 65 °C (-44 °F ~ 149 °F) IR OFF; -40 °C ~ 50 °C (-40 °F ~ 113 °F) IR ON; Cold start at - 30 °C (0.5-1 hour waiting); 90% RH Storage condition 40 °C ~ 60 °C; ≤ 95% RH Protection 6000V Lightning Protection, Surge Protection and Voltage Transient Protection Shield Material Aluminum Alloy(ADC12); Polymer (PC+GF15%) Dimensions Φ 173mm × 268mm (Φ6.8 inch × 10.55 inch)						
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RS485N/ABNCN/ABuilt-in Speaker &MicN/AReset buttonYesBuilt-in Heater &FanYesWater removalSupport (eyebrow, anti-rain-drops lotus coating glass, quick-spinning)Frost removalHot air loop, desiccant, vacuumizeGeneralLanguagesCzech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc.Power SupplyDC12V $\pm 25\%$, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ workingWorking condition $\pm 40\%$ C $\pm 65\%$ C ($\pm 44\%$ F $\pm 149\%$ IR OFF; $\pm 40\%$ C $\pm 50\%$ C ($\pm 40\%$ F $\pm 113\%$) IR ON; Cold start at $\pm 30\%$ C ($\pm 55\%$ RHStorage condition $\pm 40\%$ C $\pm 60\%$ C; $\pm 95\%$ RHProtection6000V Lightning Protection, Surge Protection and Voltage Transient ProtectionShield MaterialAluminum Alloy(ADC12); Polymer (PC+GF15%)Dimensions ± 173 mm ± 268 mm (± 6.8 inch ± 10.55 inch)Net WeightApprox. 2.1Kg (4.63 lb.)	Network Interface	1 RJ45 10M/100M Adaptive Ethernet, Support PoE+				
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Built-in Heater & FanYesWater removalSupport (eyebrow, anti-rain-drops lotus coating glass, quick-spinning)Frost removalHot air loop, desiccant, vacuumizeGeneralLanguagesCzech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc.Power SupplyDC12V $\pm 25\%$, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ workingWorking condition $-40\% \sim 65\% (-44\% = 149\%)$ IR OFF; $-40\% \sim 50\% (-40\% = 113\%)$ IR ON; Cold start at $-30\% (0.5-1$ hour waiting); 90%RHStorage condition $-40\% \sim 60\% ; \le 95\%$ RHProtection6000V Lightning Protection, Surge Protection and Voltage Transient ProtectionShield MaterialAluminum Alloy(ADC12); Polymer (PC+GF15%)Dimensions Φ 173mm \times 268mm (Φ 6.8 inch \times 10.55 inch)Net WeightApprox. 2.1Kg (4.63 lb.)		Yes				
Frost removal Hot air loop, desiccant, vacuumize General Languages Czech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc. Power Supply DC12V \pm 25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ working -40 $\mathbb{C} \sim 65 \mathbb{C} (-44 \mathbb{T} \sim 149 \mathbb{T})$ IR OFF; -40 $\mathbb{C} \sim 50 \mathbb{C} (-40 \mathbb{T} \sim 113 \mathbb{T})$ IR ON; Cold start at - 30 $\mathbb{C} (0.5-1$ hour waiting); 90%RH Storage condition $-40 \mathbb{C} \sim 60 \mathbb{C} ; \leq 95\%$ RH Protection $-6000V$ Lightning Protection, Surge Protection and Voltage Transient Protection Shield Material Aluminum Alloy(ADC12); Polymer (PC+GF15%) Dimensions $-40 \mathbb{C} \sim 60 \mathbb{C} ; \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 60 \mathbb{C} : \leq 95\%$ RM $-40 \mathbb{C} \sim 600000000000000000000000000000000000$						
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LanguagesCzech, English, German, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Romanian, Spanish, Spanish(Mexico), Simplified Chinese, Turkish, Traditional Chinese, etc.Power SupplyDC12V ±25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ workingWorking condition $-40 \mathbb{C} \sim 65 \mathbb{C} (-44 \mathbb{F} \sim 149 \mathbb{F})$ IR OFF; $-40 \mathbb{C} \sim 50 \mathbb{C} (-40 \mathbb{F} \sim 113 \mathbb{F})$ IR ON; Cold start at $-30 \mathbb{C} (0.5-1 \text{ hour waiting})$; 90% RHStorage condition $-40 \mathbb{C} \sim 60 \mathbb{C} : \le 95\%$ RHProtection $6000V$ Lightning Protection, Surge Protection and Voltage Transient ProtectionShield MaterialAluminum Alloy(ADC12); Polymer (PC+GF15%)Dimensions $\Phi 173$ mm $\times 268$ mm ($\Phi 6.8 \text{ inch} \times 10.55 \text{ inch}$)Net WeightApprox. 2.1 Kg (4.63lb .)	Frost removal	Hot air loop, desiccant, vacuumize				
Languages Spanish(Mexico) , Simplified Chinese, Turkish, Traditional Chinese, etc. Power Supply DC12V \pm 25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ working -40 \times 65 \times (-44 \times 149 \times 1R OFF; -40 \times 50 \times (-40 \times -113 \times 1R ON; Cold start at -30 \times (0.5-1 hour waiting); 90%RH Storage condition -40 \times 60 \times 595% RH Protection 6000V Lightning Protection, Surge Protection and Voltage Transient Protection Shield Material Aluminum Alloy(ADC12); Polymer (PC+GF15%) Dimensions \times 173mm \times 268mm (\times 66.8 inch \times 10.55 inch) Net Weight Approx. 2.1Kg (4.63 lb.)	General					
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Working condition						
Working condition	Power Supply	DC12V±25%, 3000mA, PoE (802.3.at, class 3), max 22W include IR ON+PTZ working				
Cold start at - 30 °C (0.5-1 hour waiting); 90%RH Storage condition -40 °C ~ 60 °C; \leq 95% RH Protection 6000 V Lightning Protection, Surge Protection and Voltage Transient Protection Shield Material Aluminum Alloy(ADC12); Polymer (PC+GF15%) Dimensions Φ 173mm × 268mm (Φ 6.8 inch × 10.55 inch) Net Weight Approx. 2.1Kg (4.63 lb.)		-40 °C ~ 65 °C (-44 °F ~ 149 °F) IR OFF; -40 °C ~ 50 °C (-40 °F ~ 113 °F) IR ON;				
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Protection 6000V Lightning Protection, Surge Protection and Voltage Transient Protection Shield Material Aluminum Alloy(ADC12); Polymer (PC+GF15%) Dimensions Φ 173mm × 268mm (Φ6.8 inch × 10.55 inch) Net Weight Approx. 2.1Kg (4.63 lb.)	Storage condition	•				
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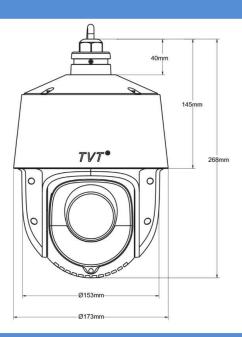


Ordering information:

TD-8423IS3N(PE/25M/AR30)

2MP 25X Starlight IR 300m Network PoE Smart-tracking 4inch PTZ Camera, IP66, -40°C \sim 65°C, DC12V/PoE+, not include power adaptor and bracket

Dimensions:



Accessories(optional):



TD-YZJ0321

Wall mounting bracket



TD-YZJ0311 Wall mounting bracket with junction box



DC12V 3A Power adaptor



TD-YZJ0321+TD-YZJ0501

Pole mounting bracket



TD-YZJ0312

Pole mounting bracket with junction box



TD-K23 PTZ Keyboard



TD-YZJ0321+TD-YZJ0601

Corner mounting bracket



TD-YZJ0313

Corner mounting bracket with junction box



TD-B901 30W PoE+ Midspan



TD-YZJ0807

Pendant mounting bracket



TD-YZJ0701E In-ceiling bracket

Shenzhen TVT Digital TECHNOLOGY CO.,LTD

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^{*} All pictures and texts are for reference only. Actual product may vary due to product enhancement.