

8MP 37X IR Network Turret Speed PTZ



TD-8783IM2N(PE/37M/AR30)



WDR



8MP



Starlight



VCA



Smart tracking



Perimeter



PoE++



-40°C



IP67



300m



System:

TD-8783IM2N(PE/37M/AR30), is the 2nd generation of 7inch full metal AI PTZ camera which adopts a powerful 37x optical zoom lens, and latest image sensor, could deliver 3840×2160@30fps image details over a large open area.

Key Spec:

- **Top-notch image quality**

This product adopts 1/1.8" large image format, P-IRIS and 4th gen Starvis sensor, which could output top-notch picture quality at film cinema level.

- **Superior low-night color performance**

Improving low-night performance 4x time than last gen contributing by F1.2 large aperture and 4th gen Stavis technology.

- **300m IR distance**

The Gen2 adopts a more powerful illuminator, which give up 2.5x times IR beam energy than last gen, thus could reach up to 300m in the pitch-black environment.

- **Black ray technology**

Suppress the strong headlamps smear of cars and distinguish human face details behind the car window glass from several hundred meters away in the night.

- **Multiple Deep-learning VCA**

The built-in 1.5Tops AI engine could support multiple AI rules running at the same time: human/vehicle/no-motor classification, perimeter protection, face detection and capture, CPL, human/vehicles smart-tracking, etc.

- **Large on-board data storage**

The on-board 4GB memory could be used to load, store a database of about 50,000 face IDs, CPL IDs. This could fasten the searching, comparing process in 1 second comparing to download from back-end(NVRs).

- **ONVIF protocol, API**

This PTZ family conforms to the ONVIF, ensuring interoperability between surveillance video products regardless of manufacturers.

- **Strong protection for harsh weather**

The gen2 has full-metal housing, IP67 and IK10 resistant which supports long-time working in harsh weather, such as windstorm, sea salty corrosion, desert and high-land strong sun radiation. The built-in high power electric heater supports cold-boot at -40 °C.

- **Rich accessories**

Various mounting brackets with junction box, 50Watt hi-power PoE Midspan or AC24V adaptor; support flexible in-field wiring and mounting.

Application:

With strong protection and high performance, this product is suitable for critical application of large range area intrusion, perimeter protection, such as airport, express way, parks, scenic spots, stations and venues, industrial park. Boundary scanning for criminals: illegal wild-animal hunting, crossing border, etc. Geological disaster pre-discovery: seaquake, mudflow, forest fire, etc.

Suggestion installation: at 6m to 15m in height.

SPECIFICATION:

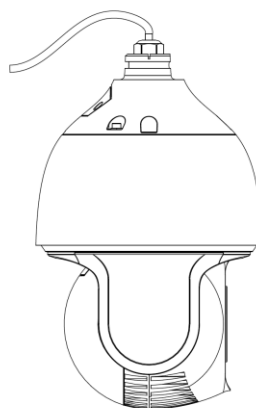
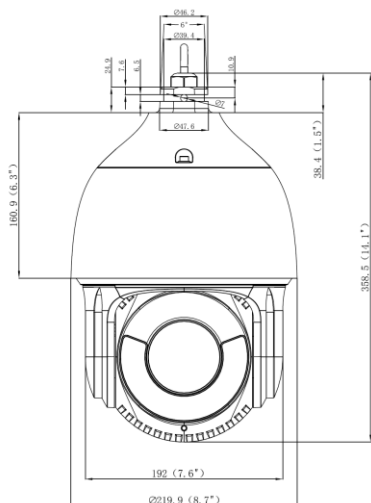
Camera Module					
Image Sensor	1/1.8" progressive scan CMOS image sensor(SONY IMX678)				
Max Resolution	3840x2160				
Mini. Illumination	Color：0.001 Lux @ (F1.2,AGC ON); B/W： 0.0002 Lux @ (F1.2, AGC ON);0Lux with IR				
Image Setting	Saturation, Brightness, Contrast, Sharpness, AGC, etc. adjusted by client				
Shutter Speed	50Hz:1/25s-1/25,000s; 60Hz: 1/30 s – 1/30,000s.				
White Balance	Auto/Manual/Indoor/Outdoor				
Gain Control	Auto/Manual				
Day & Night Control	Timer, schedule, manual and auto				
Iris Control	Auto/Manual				
SNR	≥52dB				
3D DNR	Auto/Manual				
AE Enhancement	BLC, HLC, WDR				
Digital Zoom	16X				
Electronical Stabilizer	N/A				
Optical Defog	Built-in optical defog filter				
Privacy Mask	Up to 4 privacy masks				
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= 6 ~ 222mm lens,37x optical zoom±5%				
Zoom Speed	Approx. 5.2s (optical zoom, wide-tele) ±5%				
Field of View	Horizontal: 59 °to 1.98 °; Vertical: 34.14 °to 1.12 °; Diagonal: 67.08 °to 2.27 ° (wide-tele) ±5%				
Object to Lens	wide: 1.0m ~ INF; tele: 1.5m ~ INF				
Aperture type	F1.2~F4.6(wide-tele), P-IRIS, support manual or auto				
Optical Filter Type	Removable IRCUT filter, with absorbing type to anti flare and smear				
DORI Table	Focus length	Detect	Observe	Recognize	Identify
	f=6mm	138.2m(453.4f.t.)	54.8m(217.5 f.t.)	27.6m(90.6 f.t.)	13.8m(31.3 f.t.)
	f=222mm	4,293m(14,084f.t.)	1,706m (5,589 f.t.)	858.6m(2,817f.t.)	429.3m(1,408f.t.)
PTZ					
Pan Range	360 °endless				
Pan speed	Configurable, from 0.1~240 °/s; Preset speed: 240 °/s				
Tilt Range	From -25 °to 155 °, auto flip at 90 °				
Tilt Speed	Configurable, from 0.1 °~180 °/s, Preset speed: 180 °/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				
PTZ Position Display	Support				
Schedule Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot				
Supplement Light					
Light Distance	300m (984 f.t.)				
White light	N/A				
IR Type	Total 8pcs IR LED and 2pcs IR VCSEL(5 angle groups,65 °/35 °/18 °/9 °/5 °), 850nm				
IR Control	Manual or auto. Support Smart IR				
Video					
Mainstream	50Hz/25fps: 3840 × 2160,2560 × 1440,1920 × 1080,1280 × 960,1280 × 720; 60Hz/30fps: 3840x2160,2560x1440,1920 × 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	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	
Audio Compression	G.711 A/U
Audio Bit Rate	64K bps
Network	
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
Event	
Basic Event	Motion detection, video tampering alarm, alarm input, alarm output, exception (Network disconnected, IP address conflict, SD full, SD error)
Smart Event	Line crossing detection, region entrance detection, object removal detection, intrusion detection, region exiting detection, audio exception detection
Smart Tracking	Manual/Auto-tracking of human/no-motor vehicle/motorized vehicle(ver5.1.1)
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.
Deep-learning Function	
Face Capture	Detecting multiple faces in the same scene. Support detecting, capturing, grading, and output the best.
Face Comparison	(Default off) Yes
Perimeter Protection	Line crossing, Intrusion, Region entrance, Region exiting, Support alarm triggering by specified type.
Road Traffic and Vehicle Detection	
Road Traffic	Support vehicle detection and tracking(ver5.1.1).
System Integration	
Alarm Interface	2 Alarm input (Dry contact); 2 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
SD Card Slot	One MicroSD slot and chamber, up to 256G
Built-in Speaker	N/A
RS485	Half-duplex, Pelco-P/D
BNC	N/A
Reset Button	Yes
Heater & Fan	Built-in electric fan for heat sink, Built-in electric heater for cold start.
Water Removal	Remove water-drops by quick spinning
Demist	Active electric heating and air loop to lens glass to removal the Frost and Fog
General	
Languages	Czech; English; German; Hungarian; Italian; Japanese; Korean; Portuguese; Polish; Russia; Romanian; Spanish; Spanish (Mexico); Simplified Chinese; Turkish; Traditional Chinese. Etc.
Power Supply	AC/DC24V3000mA±25%, PoE++ (802.3.bt, class 6), avg 14.5watt, max 51Watt(IR 10Watt, Heater 10Watt)
Working Condition	-40℃~70℃ (-58℉~158℉), IR off; -40℃~55℃, IR on; Cold start>= -40℃(1 hour waiting); 90%RH
Storage Condition	-40℃~70℃; ≤95% RH
Housing	Aluminum Alloy
Dim. & Weight	Φ 219.9mm x H 358.5mm(Φ 8.7inch x 14.1 inch), Net weight Approx. 6.0 Kg (13.22 lb.)
Approval	
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011+A1: 2014);
Certification	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 62368-1:2014+A11:2017), BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67(IEC 60529-2013), IK10 (IEC 62262:2002),6000V Lightning Protection, Surge Protection and Voltage Transient Protection

Ordering information:

TD-8783IM2N(PE/37M/AR30)	7inch 8MP 37X IR 300m Network Speed Turret PTZ Camera. NDAA compliant ,IP67/IK10,include AC power adaptor, and wall mounting bracket
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Dimensions(mm/inch):



Accessories:



TD-YZJ0308
Wall mounting bracket



TD-YZJ0309
Pole mounting bracket



TD-YZJ0310
Corner Mounting bracket



TD-YZJ0807
Pendant mounting bracket



TD-YZJ0311
Wall mounting bracket
With junction box



TD-YZJ0312
Pole mounting bracket
with junction box



TD-YZJ0313
Corner mounting bracket
with junction box



TD-K23
PTZ control keyboard



AC24V/3A Power adaptor



DC24V/3A Power adaptor



TD-B902
PoE++(60W) Midspan

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

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