37X IR Laser 800m Network PTZ Camera



TD-8843IM2N(PE/WP/37M/VL80) TD-8843IM2N(PE/WP/37M/VL81) TD-8883IM2N(PE/WP/37M/VL80)









Max 8MP







IP67



800m

PoE++







System:

The 8-inch 2nd gen PTZ family improves performance of the laser illuminator, sensor, lens, soc platform, and most important security regulation and data protection policy, which could meet the latest safety concerns and regulation. TD-8843 is the 4MP model and the TD-8883 is the 8MP model.

Function and features:

• Top-notch image quality

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

• Superior low-light color performance

Improve low-light performance 4x time than last gen contributing by F1.2 large aperture and Sony Stavis technology.

•800m Laser IR distance

The Gen2 adopts a more powerful laser illuminator, which gives up 3x times IR beam energy, and thus could monitor above 800m in the pitch-black environment.

•Lamps smears suppress

Suppress the strong light from headlamps and streetlamps, 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 various objects IDs, such as ANP, facial ID and barcode. 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 gen has full-metal housing, IP67 and IK10 strong protection which support long-time working harsh weather such as: windstorm, sea salty corrosion, desert and high-land with strong sun radiation. The built-in heater supports cold-boot under zero 40 degrees, and the water-wiper supports working in tropical rainy area.

• Rich accessories

Various mounting brackets including junction box,

hi-power PoE Midspan or power adaptor support flexible in-field wiring and mounting.

Application:

Large open area surveillance projects such as rivers, forests, roads, railway, seaports, scene spots, large venues, boundary scanning and smart-tracking for criminals, wild-animal hunting, crossing border, etc. Geological disaster pre-discovery: seaquake, mudflow, forest fire, etc.



TVT TD-88x3IM2N

SPECIFICATION:

Camera Module		TD-8843IM2N(PE/WP/37M/VL8x), x=0,1		TD-8883IM2N(PE/WP/37M/VL80)		
Image sensor		1/1.8" progressive CMOS (SONY IMX664)		1/1.8" progressive CMOS (SONY IMX678)		
Max resolution		2560x1440		3840x2160		
Mini. Illumination		Color: 0.0005 Lux @ (F1.2,AGC ON);		Color: 0.001 Lux @ (F1.2,AGC ON);		
		B/W: 0.0001 Lux @ (F1.2, AGC ON).		B/W: 0.0002 Lux @ (F1.2, AGC	CON).	
		0Lux with IR 0Lux with IR				
Image setting		Saturation, Brightness, Contrast, Sharpness, AGC, AWB, etc. adjusted by client				
Shutter Speed		VL80:50Hz: 1/25s-1/25,000s, 60Hz: 1/30s-1/30,000s. VL81:50Hz: 1/50s-1/50,000s,60Hz:1/60s-1/60,000s				
White Balance		Auto/Manual/Indoor/Outdoor				
Gain control		Auto/Manual				
SNR		≥52dB				
Day & Night control		Auto Mode, Manual Mode, Scheduled-switch, Timer.				
Focus control		Auto, Manual (Near/Far)				
Iris c	control	Auto/Manual				
	e Reduction	2D/3D DNR, Auto/Manual				
AE Enhancement		BLC, HLC, HDR				
Digital Zoom		16X				
Image Stabilizer		DIS				
	cal Defog	Built-in optical defog filter				
	acy Mask	4 areas per scene				
	ire overlay	Logo picture could be overlaid on video, 16x16,24x24,32x32,48x48,64x64,96x96,128x128pixels				
	overlay	Max 15 characters/line, 8 lines, white or red font color, text such as week, date, time				
Lens		TD-8843IM2N(PE/WP/37N		TD-8883IM2N(PE/WP/37M/VI	280)	
	is length	f= 6 ~ 222mm lens,37x optical zoom±5%				
	n 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%				
Image distance		wide: 1.0m ~ INF; tele: 1.5m ~ INF				
Aperture type		F1.2~F4.6(wide-tele), P-IRIS, 6 slices Diaphragm, support auto/manual				
IKC	at Type	Removable IR Cut filter, absorbing type to anti flare and smear by Sun and headlamps of vehicles				
D	Focus length Detect	f=6mm 95.3m(312.7f.t.)	f=222mm 2,960m(8126.6f.t.)	f=6mm 138.2m(453.4f.t.)	f=222mm 4,293m(14,084f.t.)	
O	Observe	93.5III(312.71.t.) 124m (129.7 f.t.)		· · · · · ·	1,706m (5,589 f.t.)	
R	Recognize	19.06m(62.5 f.t.)	1,429m (3250.7 f.t.) 592m(1625.3f.t.)	54.8m(217.5 f.t.) 27.6m(90.6 f.t.)	858.6m(2,817f.t.)	
I	Identify	7.9m (31.3 f.t.)	296m (812.7 f.t.)	13.8m(31.3 f.t.)	429.3m(1,408f.t.)	
PTZ	· · · · · · · · · · · · · · · · · · ·	7.9111 (31.31.1.)	29011 (812.7 1.t.)	13.611(31.3 1.t.)	429.311(1,4001.t.)	
	Range	360 endless				
	speed	Configurable, from 0.1~180 %s; Preset speed: 240 %s				
	Range	Mechanical: from -25 °to 155 °, auto flip at 90 °				
	Speed	Configurable, from 0.1 ~150 %, Preset speed: 180 %				
	ortional Zoom	Yes				
Preset		360				
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				
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				
Preset Freezing		N/A				
	plement Light					
	t distance	800m (2,625 f.t.)				
0						



TD-88x3IM2N

Illuminator type	Zoomed IR Laser illuminator,850nm, IEC Class 4 ey	e safety, diagonal 70 °-2.1 ° continuous variable.				
Smart IR	Yes					
Video	TD-8843IM2N(PE/WP/37M/VL8x), x=0,1	TD-8883IM2N(PE/WP/37M/VL80)				
Mainstream	2560x1440,1920×1080,1280×960,1280×720.	3840x2160,2560×1440,1920x1080,1280×960,1280×720.				
	(VL80: 25/30fps, VL81: 25/30/50/60fps)	1,111,1				
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	Mainstream: Smart H.265+/H.265/H.264+/H.264 Sub stream: Smart H.265+/H.265/H.264/MJPEG Third stream: Smart H.265+/H.265/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	32 Kbps to 16Mbps					
Audio						
Audio compression	G.711 A/U					
Audio Bit Rate	64K bps					
Network	1 2 122 3/2					
Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP DHCP, PPPoE, P2P, RTMP	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 Us	er and Normal User				
Cit M	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network					
Security Measures	access control; IP address filtering					
API	ONVIF G/S/T/Q, support TVT SDK and third-party management platform					
Client	TVT N9000 1.4.9&TVT NVMS 2.0 and later, the third-party client, free iOS and Android App					
Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plug-	gin free				
Events						
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/mo	otorized vehicle(ver5.1.1)				
A1 T :1	Alarm actions, such as Preset, Cruise, Trace, Memory Card Video Record, Trigger Recording, Notify Surveillance					
Alarm Linkage	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.					
Fac comparison	(Default off) Yes					
Perimeter protection						
Road-traffic and vehicle	detection					
Road traffic	Support vehicle detection and tracking(ver5.1.1)					
System Integration						
Alarm Interface	7CH alarm input (Dry contact); 2CH alarm output					
Audio Interface	1CH audio input, 2 to 2.4v[p-p] 1K Ω ±10%; 1CH audio	lio output (line out), impedance: 600Ω				
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					
Electric Fan &Heater	Built-in electric fan for heat sink and glass Frost/Fog removal. Built-in electric heater for cold start.					
Water removal	Electric tan for heat sink and glass Frost/Fog removal. Built-in electric heater for cold start. Electric wipe for water-drops, dust, mud, ice, frost. Time-schedule/manual.					
Demist	Active electric heating and air loop					
General	Theave electric feeting and an foop					
Languages	Czech; English, German; Hungarian; Italian; Japanese; Korean; Portuguese, Polish; Russian, Romanian, Spanish; Spanish (Mexico); Simplified Chinese; Turkish; Traditional Chinese. Etc.					
Power consumption	avg:36W, max 63.6Watt (PTZ working + IR ON + Heater on)					



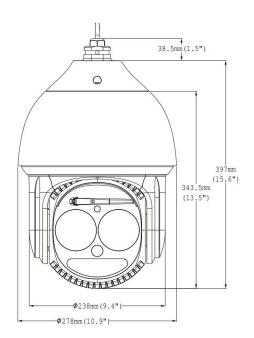
TD-88x3IM2N

	DC36V3000mA, CE/FC/UL, 0-40°C			
Power adaptor	AC24V5000mA, CE/FC/UL,-40°C,+70°C			
	90W PoE++ Midspan, FCC/UL/GB,-10,+50°C			
Work condition	ion -40 °C~70°C(-48°F ~ 158°F) IR off; -40°C~50°C, IR on; Cold start>=- 30°C(0.5~1.5 hour waiting); 90%RH			
Storage condition	e condition $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}; \leq 80\% \text{ RH}$			
Material	Aluminum Alloy (ADC12)			
Dim. &Weight	Dim. &Weight			
Approval	approval			
	FCC SDoC (47 CFR Part 15, Subpart B).			
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011+A1: 2014).			
	KC (KN 32:2015, KN 35: 2015)			
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014).			
Certification	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			

Available model:

TD-8843IM2N(PE/WP/37M/VL80)	4MP 37X 800m laser AI 8-In Turret PTZ Camera with wiper,include power adaptor and bracket(Not recommend for new project)	
TD-8843IM2N(PE/WP/37M/VL81)	50/60fps 4MP 37X 800m laser AI 8-In Turret PTZ Camera with electric wiper, include DC power adaptor and bracket	
TD-8883IM2N(PE/WP/37M/VL80)	8MP 37X 800m laser AI 8-In Turret PTZ Camera with electric wiper, include power adaptor and bracket	

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/5A Power adaptor



DC36V/3A Power adaptor



90W PoE++ MidSpan

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