

# TDODIA450M-AI

## 4MP LITE AI IR VARI-FOCAL DOME NETWORK CAMERA



### FEATURES:

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 x 1520)@30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 131ft
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection
- SMD

# Specifications:

<b>Model</b>		<b>TDODIA450M-AI</b>			
<b>Camera</b>					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Effective Pixels		2688(H) × 1520(V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3s ~ 1/100000s			
Min. Illumination		0.005 Lux@F1.5			
IR Distance		131.23ft			
IR On/Off Control		Auto / Manual			
IR LEDs Number		2 (IR LEDs)			
Pan/Tilt/Rotation Range		Horizontal: 0°~355°; vertical: 0°~75°; rotation: 0°~355°			
<b>Lens</b>					
Lens Type		Motorized vari-focal			
Mount Type		Φ14			
Focal Length		2.7mm~13.5mm			
Max. Aperture		F1.5			
Field of View		Horizontal: 104°~27° Vertical: 55°~15° Diagonal: 124°~31°			
Iris Type		Fixed aperture			
Close Focus Distance		0.8m (2.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0m(210.0ft)	25.6m(84ft)	12.8m(42.0ft)	6.4m(21.0ft)
	T	222.0m(728.3ft)	88.8m(291.3ft)	44.4m(145.7ft)	22.2m(72.8ft)
<b>Professional, Intelligent</b>					
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)			

Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
<b>Video</b>	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)
Streaming Capability	3 Streams
Resolution	4M (2688×1520); 3M (2304×1296); 1080P (1920×1080); 1.3M (1280×960); 720P (1280×720); D1 (704×576/704×480); VGA (640×480); CIF (352×288/352×240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 Kbps ~ 8192 Kbps H.265: 3 Kbps ~ 8192 Kbps
Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution)
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Audio Compression	G.711a; G.711Mu; G726; AAC
<b>Network</b>	
Network	RJ-45 (10/100 Base-T)
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP;

	RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G); CGI; P2P; Milestone; Genetec
Scene Self-adaption	Yes
User/Host	20 (Total bandwidth: 64 M)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); ToughDog Cloud; NAS
Browser	IE: IE8, IE9, IE11 Chrome Firefox
Management Software	TD-SMS, ToughDog Viewer
Mobile Phone	IOS, Android
<b>Certifications</b>	
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
<b>Port</b>	
Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1-channel in: 5mA 3V–5V DC
Alarm Output	1-channel out: 300mA 12V DC
<b>Power</b>	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<8.5W
<b>Environment</b>	
Operating Conditions	-30°C to +60°C (-22°F to +140°F) / Less than ≤95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67; IK10
<b>Structure</b>	
Casing	Metal
Dimensions	Φ122mm × 88.9mm (Φ4.8" × 3.5")
Net Weight	492g (1.1lb)

Gross Weight	663g (1.5lb)
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## Accessories:

### Optional:



PFA137  
Junction Box



PFB203W  
Wall Mount



PFA152-E  
Pole Mount



PFA200W  
Rain Shade



PFA106  
Mount Adapter



PFB220C  
Ceiling Mount



PFB200C  
In-Ceiling Mount



PFM321D  
DC12V1A Power  
Adapter



LR1002-1ET/1EC  
Single-port long  
reach ethernet over  
coax extender



PFM900-E  
Integrated Mount  
tester



PFM114  
TLC SD card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		

## Dimensions:

