

# TDOEIA4502SA-AI

## 4MP LITE AI IR FIXED FOCAL EYEBALL NETWORK CAMERA



### FEATURES:

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 164ft
- 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 (Recognition of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power support
- IP67 protection
- SMD

# Specifications:

<b>Model</b>	<b>TDOEIA4502SA-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 1/3 s-1/100000 s			
Min. Illumination	0.005 Lux@F1.6			
IR Distance	Up to 164ft			
IR On/Off Control	Auto / Manual			
IR LEDs Number	2 (IR LEDs)			
Pan/Tilt/Rotation Range	Horizontal: 0°-360°; vertical 0°-78°; rotation 0°-360°			
<b>Lens</b>				
Lens Type	Fixed focal			
Mount Type	M12			
Focal Length	2.8mm			
Max. Aperture	F1.6			
Field of View	H: 103°; vertical: 55°; diagonal: 122°			
Iris Type	Fixed aperture			
Close Focus Distance	0.9m (3.0ft)			
DORI Distance	Detect	Observe	Recognize	Identify
	56.0m (183.7ft)	22.4m (73.5ft)	11.2m (36.8ft)	5.6m (18.4ft)
<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 (2688x1520@1-25/30 fps) sub stream (704x576@1-25 fps/704x480@1-30 fps) third stream (1280x720@1-25/30 fps)
Stream Capability	3 streams
Resolution	4M (2688x1520); 3M (2304x1296); 1080p (1920x1080); 1.3M (1280x960); 720p (1280x720); D1 (704x576/704x480); VGA (640x480); CIF (352x288/352x240)
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	120dB
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 x 1080 resolution)
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Built-in MIC	Yes
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-adaptation	Yes
User/Host	20 (Total bandwidth: 64M)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); ToughDog Cloud; NAS
Browser	IE: IE8, IE9, IE11 Chrome Firefox
Management Software	Smart PSS, DSS, ToughDog Viewer
Mobile Phone	IOS; Android
<b>Certifications</b>	
Certifications	CE-LVD: EN60950-1CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUFCC: 47 CFR FCC Part 15, Subpart BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
<b>Power</b>	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.7W
<b>Environment</b>	
Operating Conditions	-40°C to +60°C (-40°F to +140°F) / Less than ≤95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67
<b>Structure</b>	
Casing	Metal
Dimensions	99.1mm × Φ121.9mm (3.9" × Φ4.8")
Net Weight	480g (1.05lb)
Gross Weight	660g (1.45lb)

# Accessories:

## Optional:



PFA130-E  
Junction Box



PFB203W  
Wall Mount



PFA152-E  
Pole 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	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFA203W

# Dimensions:

