

TDODIA430MS

4MP IR Vari-focal Dome Network Camera



- \cdot 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520)@20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max IR distance: 40 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67, IK10 protection















Series Overview

With upgraded H.265 encoding technology, TDODIA430MS network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

WDR

With advanced Wide Dynamic Range (WDR) technology, TDODIA430MS network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

With advanced image processing technology and optical technology, Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

IVS

With advanced video algorithm, IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

TDODIA430MS network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	on					Bit Rate Control	CBR/VBR	
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Image Sensor		1/3" 4Megapixel progressive CMOS					Day/Night	Auto(ICR)/Color/B/W
Max. Resolution		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Gain Control	custom Auto/Manual
Min. Illumination		0.008 Lux @ F1.5					Noise Reduction	3D NR
S/N Ratio		>56 dB						
Illumination Dist	tance	40 m (131.23 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/O	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Num	ber	2 (IR LED)					Smart Illumination	Yes 0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520
Day /Tile / Datation Day and		Pan: 0°-355°					Image Rotation	resolution and lower.)
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–355°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Alarm	
Mount Type		ф14						No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video
Focal Length		2.7 mm-13.5 mm					Alarm Event	tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
Max. Aperture		F1.5				Network		
Field of View		Horizontal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°					Network	RJ-45 (10/100 Base-T)
Iris Type		Fixed					SDK and API	Yes
Close Focus Distance		0.8 m–0.8 m (2.62 ft–2.62 ft)						Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
	Lens	Detect 64 m	Observe 25.6 m	Recognize	Identify 6.4 m		Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
DORI Distance	W	(209.97 ft)	(83.99 ft)	(41.99 ft)	(21 ft)		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)			
Smart Event							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone;
IVS		Tripwire; intrusion						Genetec
Video							User/Host	20
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE Chrome Firefox
		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream:					Management Software	Toughdog Viewer Professional
Video Frame Rate							Mobile Phone	IOS; Android
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Certification	
Stream Capability		2 streams						CE-LVD: EN62368-1
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (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)					Certification	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
			,					

TDODIA430MS



Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.5W

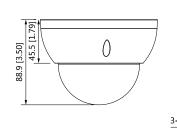
Environment

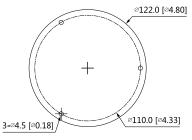
Operating Conditions	-30°C to $+60$ °C (-22 °F to $+140$ °F)/less than ≤ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67; IK10

Structure

Casing	Metal
Dimensions	Ф122 mm × 88.9 mm (Ф4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Dimensions (mm[inch])





Accessories

Optional:







PFA137 Junction Box

PFB203W Wall Mount









PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount



PFB200C In-Celling Mount

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137		PFB203W	
PFA137	PFA137+PFA200W	PFB2U3W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		