

TDODIA840M

8MP Lite IR Vari-focal Dome Network Camera



System Overview

With upgraded H.265 encoding technology, TOUGHDOG 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 to the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Codec

With advanced scene-adaptive rate control algorithm, TOUGHDOG 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, TOUGHDOG 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.

- \cdot 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP (3840 × 2160) @15 fps, and supports 2688×1520 (2688 × 1520) @25/30 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 DNR, 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 disconnection, IP conflict, illegal access, local alarm, voltage detection, audio abnormal
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/POE power support
- IP67, IK10 protection



Starlight

TOUGHDOG technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

IVS

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

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 cm (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.

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	ecificati	on			
Camera					
Image Sensor		1/2.7" 8Megapixel progressive CMOS			
Effective Pixels		3840 (H) × 21	3840 (H) × 2160 (V)		
ROM		128 MB			
RAM		256 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.008 Lux@F1.5			
IR Distance		40 m (131.2 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–67° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.7 mm-13.5 mm			
Max. Aperture		F1.5			
Field of View		Pan: 113°–31° Tilt: 58°–17° Diagonal: 138°–36°			
Iris Type		Fixed			
Close Focus Dista	ince	0.8m–0.8m (2.62 ft–2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	85.3 m (279.9 ft)	34.1 m (111.9 ft)	17 m (55.8 ft)	8.5 m (27.9 ft)
	т	280 m (918.6 ft)	112 m (367.5 ft)	56 m (183.7 ft)	28 m (91.9 ft)
Smart Event					
General IVS Analy	ytics	Tripwire; intr	usion		
Video					
Video Compressi	on	H.265; H.264; H.264B; MJPEG			
Smart Codec		Yes			
Video Frame Rate		Main stream: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)			
Stream Capability	/	2 streams			
Resolution		3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 ×1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 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)			

Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 12 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° (Supports 90°/270° with 2688 \times 1520 resolution and lower.)			
Mirror	Yes			
Privacy Masking	4 areas			
Audio				
Audio Compression	G.711a; G.711Mu; G.726; AAC			
Network				
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; Bonjour			
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec			
User/Host	20			
Edge Storage	Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS			
Browser	IE Chrome Firefox			
Management Software	TD-SMS; TOUGHDOG VIEWER			
Mobile Phone	IOS; Android			
Certification				
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			
Port				
Audio Input	1 channel (RAC port)			
Audio Output	1 channel (RAC port)			
Alarm Input	1 channel In: 5mA 5V DC			
Alarm Output	1 channel Out: 300mA 12V DC			

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Power		

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.4W
Environment	
Operating Conditions	-30° C to +60°C (-22° F to +140°F)/less than $\leq 95\%$ RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67; IK10
Structure	
Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")
Net Weight	0.47 kg (1.1 lb)
Gross Weight	0.63 kg (1.4 lb)

Accessories

Optional:



Wall Mount



Pole Mount

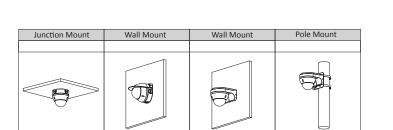
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Celling Mount

In-Celling Mount

DC12V1A Power Adapter



Dimensions (mm[inch])

