

TDODIA4302

4MP IR Fixed-focal Dome Network Camera



Series Overview

With upgraded H.265 encoding technology, 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 vandalproof 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, 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.

- \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: 98 Ft
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- \cdot 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



IVS

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

Cyber Security

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 ±30% input voltage tolerance (wide

voltage range), and it is widely applied to outdoor environment with instable voltage.

TDODIA4302



Technical Specification

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Camera					
Image Sensor		1/3" 4Megapixel progressive CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.008 Lux @ F1.6			
S/N Ratio		>56 dB			
Illumination Distance		98.43 ft			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal 102.0° × Vertical 55.0° × Diagonal 121.0°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (19.37 ft)
Smart Event					
IVS		Tripwire; intrusion			
Video					
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			
Smart Codec		Smart H.265+/ Smart H.264+			
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)			
Stream Capability		2 streams			

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)			
Bit Rate Control	CBR/VBR			
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 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 NR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest(RoI)	Yes (4 areas)			
Smart Illumination	Yes			
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 $\times 1520$ resolution and lower.)			
Mirror	Yes			
Privacy Masking	4 areas			
Alarm				
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception			
Network				
Network	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade			
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			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec			
User/Host	20			
Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP			
Browser	IE Chrome Firefox			
Management Software	TD-SMS, TOUGHDOG VIEWER APP			
Mobile Phone	IOS; Android			

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Certification

Certifications	CE-LVD: EN62368-1 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				
Power					
Power Supply	12V DC/PoE (802.3af)				
Power Consumption	< 5.2W				
Environment					
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than \leq 95% RH				
Storage Temperature	-40°C to +60°C (-40°F to +140°F)				
Protection	IP67; IK10				
Structure					
Casing	Metal				
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")				
Net Weight	0.350 kg (0.77 lb)				
Gross Weight	0.491 kg (1.08 lb)				

Accessories

Optional:



PFA136

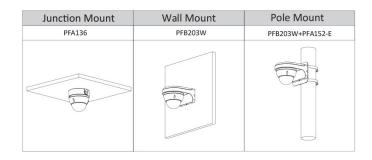


Junction Box



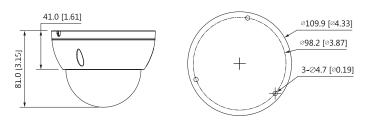
PFA152-E Pole Mount

PFB203W Wall Mount



Dimensions (mm[inch])

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Ordering Information

Туре	Part Number	Description	
4MP Camera	TDODIA4302	4MP Lite IR Fixed-focal Dome Network Camera,PAL	
Accessories (optional)	PFA136	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	