

5MP IR Vari-focal Dome Network Camera



Functions

SMD Plus

With intelligent algorithm, TD Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, TD 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.

Perimeter Protection

With deep learning algorithm, TD Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

WDR

With advanced Wide Dynamic Range (WDR) technology, TD 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 \times 1668) @20fps, and supports 2688 \times 1520 (2688 \times 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abno rmality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out (Only ZAS s upports); audio: 1 in, 1 out (Only ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 protection.
- · SMD Plus.













Cyber Security

ToughDog n etwork cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 work normally 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Stream Capability	2 streams	
Camera							Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620); 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)
Image Sensor		1/2.7" CMOS						
Max. Resolution		2960 (H) × 1668 (V)						
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB						H.264: 32 kbps–8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 12 kbps–8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE)					BLC	Yes
		0 lux (Illuminator on)					HLC	
S/N Ratio		>56 dB					WDR	120 dB
Illumination Distance		Up to 40 m (131.23 ft) (IR)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator (Illuminator On/Off Control		I				Gain Control	Auto; Manual
Illuminator N	Number	2 (IR LED)					Noise Reduction	3D NR
Pan/Tilt/Rot	ation Range	Pan: 0°–355° Tilt: 0°–67°					Motion Detection	OFF/ON (4 areas, rectangular)
Long		Rotation: 0°–355°					Region of Interest (RoI)	Yes (4 areas)
Lens		Motorized vari-focal					Smart Illumination	Yes
Lens Type	Lens Type		ri-iocai				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Focal Length			φ14 2.7 mm–13.5 mm				Mirror	Yes
Max. Apertu			F1.5				Privacy Masking	4 areas
Field of View	/	H: 113°-31°; V: 58°-18°; D: 138°-36°					Audio	
Iris Control		Fixed					Built-in MIC	Yes
Close Focus Distance		0.8 m (2.62 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
DORI		64.0 m	25.6 m	12.8 m	6.4 m		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Distance	W T	(210.00 ft) 210.0 m (689.00 ft)	(84.00 ft) 84.0 m (275.60 ft)	(42.00 ft) 42.0 m (137.80 ft)	(21.00 ft) 21.0 m (68.90 ft)			
Intelligen	ice						Network	
IVS (Perimet	IVS (Perimeter Protection)			functions supp detection of vel			Network Port	RJ-45 (10/100 Base-T)
		human) Work together with Smart NVR to perform refine					SDK and API	Yes
Smart Search	Smart Search			raction and me			Network 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; Boujour; P2P
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
Video Compression		by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate		Main stream: $2960 \times 1668 @ (1-20 \text{ fps})/2688 \times 1520@ (1-25/30 \text{ fps})$ sub stream: $704 \times 576 @ (1-25 \text{ fps})/704 \times 480 @ (1-30 \text{ fps})$ *The values above are the max. frame r ates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Browser	IE; Chrome; Firefox
							Management Software	SmartPSS Lite; DSS; DMSS
							Mobile Client	iOS; Android
							WODIE CHEFIL	103, Allululu

I DODINOGOMI AI			
	Configuration encryption; trusted execution; Digest;		
Cyber Security	security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14		
Port			
Audio Input	1 channel (RCA port) (Only- ZAS supports)		
Audio Output	1 channel (RCA port) (Only- ZAS supports)		
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)		
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	-ZS: Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 6.1 W (12 VDC); 7.3 W (PoE) -ZAS: Basic: 2.4 W (12 VDC); 3 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 6.2 W (12 VDC); 7.4 W (PoE)		
Environment	mediate, 1753, 6.2 W (12 VDG), 7.4 W (16E)		
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95%		
Protection	IP67; IK10		
Structure			
Casing Material	Metal		
Product Dimensions	93.4 mm × Φ122 mm (3.68" × Φ4.80")		
Net Weight	-ZS: 0.50 kg (1.10 lb) -ZAS: 0.51 kg (1.12 lb)		
Gross Weight	-ZS: 0.66 kg (1.46 lb) -ZAS: 0.67 kg (1.48 lb)		

Ordering Information							
Туре	Model	Description					
5MP Camera	TDODIA530M-AI	5MP IR Vari-focal Dome Network Camera					
SIVIP Camera							
	PFA137	Junction Box					
	PFB203W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)							

Accessories

Optional:



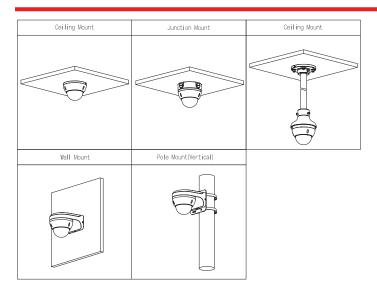
PFA137

Junction Box





PFA152-E Pole Mount Bracket



Dimensions (mm[inch])

