



FD2531-FS

5MP IR Fixed-focal Dome WizSense Network Camera





Launched by Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

With advanced deep learning algorithm, WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, 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, 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

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (2688 × 1520) @25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, and the max. illumination distance is 30 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 and tripwire(the two functions support the classification and accurate detection 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, and voltage detection.
- · Supports max. 256 G Micro SD card; built in 1-channel MIC.
- · 12 VDC/PoE power supply, easy for installation.
- · IP67 and IK10 protection.
- · SMD Plus.













Cyber Security

network 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 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.





Technical	Specification	on					5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296);
Camera						Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Image Sensor		1/2.7" CMOS					(352 × 288/352 × 240)
Max. Resolution		2592 (H) × 1944 (V)				Bit Rate Control	CBR/VBR H.264: 3 kbps–8192 kbps
ROM		128 MB				Video Bit Rate	H.265: 3 kbps–8192 kbps
RAM		512 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				HLC	Yes
		0.005 lux@F1.6(Color,30 IRE)				WDR	120 dB
Min. Illumination		0.0005 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)				Scene Self-adaptation (SSA)	Yes
S/N Ratio		>56 dB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination Distance		30 m (98.43 f	ft) (IR LED)			Gain Control	Auto;Manual
Illuminator (On/Off Control	Auto;Manual				Noise Reduction	3D DNR
Illuminator Number		3 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Pan: 0°-355° Tilt: 0°-65°				Region of Interest (RoI)	Yes (4 areas)
		Rotation: 0°–355°				Smart Illumination	Yes
Lens						Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p
Lens Type		Fixed-focal					resolution and lower)
Lens Mount		M12				Mirror	Yes
Focal Length		2.8 mm; 3.6 mm				Privacy Masking	4 areas
Max. Aperture		F1.6				Audio	
Field of View		2.8 mm: H: 97°; V: 71°; D: 129° 3.6 mm: H: 80°; V: 57°; D: 107°				Built-in MIC	Yes
Iris Control		Fixed				Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus	Distance	2.8 mm: 1.1 m 3.6 mm: 1.7 m				Alarm	
	Lens	Detect	Observe	Recognize	Identify		No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (21.00 ft)	Alarm Event	detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; SMD; security exception
Distance	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m	Network	
Intolligon		(280.18 ft)	(112.20 ft)	(56.10 ft)	(27.89 ft)	Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce	Tripwire: intr	usion(the two f	unctions suppo	ort the	SDK and API	Yes
IVS (Perimeter Protection)		Tripwire; intrusion(the two functions support the classification and accurate detection of vehicle and human)					Video encryption; firmware encryption; configuration
Smart Search		Work togethe		IVR to perform raction and me		Cyber Security	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
Video			Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;			
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP	
Smart Codec		Smart H.265+; Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
		Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@				User/Host	20 (Total bandwidth: 64 M)
Video Frame	Rate	(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)			80@(1-30	Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Stream Capability		2 streams				Browser	IE Chrome

Firefox





Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

12 VDC/PoE (802.3af)

7.2 W (PoE)

Basic: 3 W (12 VDC); 3.5 W (PoE)

Max(WDR + IR intensity + Intelligence on): 6 W (12 VDC);

Power Consumption

Environment

Power Supply

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67; IK10

Structure

Casing	Metal
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")
Net Weight	351g (0.8 lb)
Gross Weight	495g (1.1 lb)

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Туре	Model	Description
5MP Camera	FD2531-FS	5MP IR Fixed-focal Dome WizSense Network Camera
SMP Calliera	FD2531-FS	5MP IR Fixed-focal Dome WizSense Network Camera
	PFA136	Junction Box
	PFB203W	Wall Mount Bracket
	PFA200W	Rain Shade
	PFA106	Mount Adapter
Accessories (Optional)	PFA152-E	Pole Mount Bracket
	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Optional:







PFA136 Junction Box

PFB203W Wall Mount Bracket

PFA200W Rain Shade







PFA106 Mount Adapter

PFA152-E Pole Mount Bracket

PFB220C Ceiling Mount Bracket









PFM321D 12V DC 1A Power Adapter

PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Celling Mount
Wall Mount	Pole Mount(Vertical)	Pole Mount (Norizontal)
Corner Mount		