

PIX-NDV403SMA

4MP IR Vari-focal Dome WizSense Network Camera



Launched by Pixvideo 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 Pixvideo's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Pixvideo WizSense 3 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, Pixvideo Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realizeeffective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Pixvideo 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, Pixvideo Perimeter Protection technologycan 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- H.265 codec, high compression rate, 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 (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 protection
- · SMD Plus













Starlight

Pixvideo Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Cyber Security

Pixvideo 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 $1\,\mathrm{m}$ 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.



Technical Specification						Bit Rate Control	CBR/VBR	
Camera						Video Bit Rate H.264: 3 Kbps—8192 Kbps		
Image Sensor		1/3"4Megapixel progressive CMOS				Day/Night	H.265: 3 Kbps–8192 Kbps Auto(ICR)/Color/B/W	
Max. Resolution		2688 (H) ×1520 (V)				BLC	Yes	
ROM		128 MB				HLC	Yes	
RAM		512 MB				WDR	120 dB	
Scanning System		Progressive					Auto/natural/street lamp/outdoor/manual/regional	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				White Balance	custom	
Min. Illumination		0.005 Lux@F1.5 (Color, 30IRE) 0.0005 Lux@F1.5 (B/W, 30IRE)				Gain Control Noise Reduction	Auto/Manual 3D DNR	
S/N Ratio		0 Lux (Illuminator on) > 56 dB				Motion Detection	OFF/ON (4 areas, rectangular)	
Illumination Dis	stance	40 m (131.23 ft)				Region of Interest(RoI)	Yes (4 areas)	
Illuminator On/Off Control		Auto/Manual				Smart Illumination	Yes	
Illuminator Nur	mber	2 (IR LED)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)	
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–75°; Rotation: 0°–355°				Mirror	Yes	
Lens						Privacy Masking	4 areas	
Lens Type		Motorized vari-focal				Alarm		
Mount Type		ф14				Aldilli	No SD card; SD card full; SD card error; less service time	
Focal Length		2.7 mm-13.5 mm F1.5				Alarm Event	of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; scene changing; intensity	
Max. Aperture		Horizontal: 104°–27°				change; tripwire; intrusion; SMD		
Field of View		Vertical: 55° –15° Diagonal: 124° –31°				Network		
Iris Type		Fixed				Network	RJ-45 (10/100 Base-T)	
Close Focus Dis	stance	0.8 m (2.6 ft)				SDK and API Yes IDAA IDAG HTTD TCD HDD ADD DTD DTCD DTAD		
	Lens	Detect	Observe	Recognize	Identify	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; SNMP	
DORI Distance	W	64.0 m (210.0 ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)	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	
	Т	222.0 m (728.3 ft)	88.8 m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 ft)	.,,		
Professiona	ıl, Intellige	nt				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P;Milestone; Genetec	
Perimeter Protection			, -	tion of human a	·	Scene Self-adaptation (SSA)	Yes	
Intelligent Sear	ch			IVR to perform raction and me		User/Host	20 (Total bandwidth: 64 M)	
Video		video3				Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)				Browser	IE: IE8, IE9, IE11 Chrome Firefox	
Smart Codec		Smart H.265+/ Smart H.264+				Management Software	Smart PSS, DSS, DMSS	
		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)				Mobile Phone	IOS; Android	
Video Frame Rate						Certification		
Stream Capability		3 streams					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	
Resolution		4M (2688 × 1520); 3M (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)				Certifications		

Power

Power Supply	12V DC/PoE (802.3af)	
Power Consumption	<8.5W	

Environment

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

Structure

Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.8" × 3.5")
Net Weight	492 g (1.1 lb)
Gross Weight	663 g (1.5 lb)

Ordering Information Part Number Description Type 4MP Camera Accessories (optional)

Accessories

Optional:







ACM207 Junction Box

ACM253 Wall Mount



Pole Mount

ACM257 Rain Shade

ACM243 Mount Adapter

ACM244 Celling Mount



ACM217 In-Celling Mount

Junction Mount	Wall Mount	Wall Mount	Pole Mount
Ceiling Mount	In-Ceiling Mount		
	(E)		

