

PIX-NSP432SRI

4MP 32x Starlight IR WizSense Network PTZ Camera



WizSense

- 1/2.8" 4Megapixel STARVIS™ CMOS
- Powerful 32x optical zoom
- Max. 25/30 fps@4M
- IR distance up to 150 m
- Deep-learning-based auto tracking and perimeter protection
- SMD PLUS
- PoE+
- IP67, IK10
- Face Detection



Launched by Pixvideo Technology, WizSense is a series of AI products and solutions that adopt independent AI 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, Wiz- Sense provides intelligent, simple and inclusive products and solutions.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

Functions

Perimeter Protection

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

Starlight+ Technology

For challenging low-light applications, Pixvideo's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMD PLUS

With Deep-Learning Algorithm, Pixvideo SMD PLUS filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicles intrude.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Technical Specification					IVS		Object Abandoned/Missing			
Camera							Smart Capture		Support human, motor vehicle and non-motor vehicle image capture.	
Image Sensor							1/2.8" STARVIS™ CMOS			
Pixel							4MP			
Max. Resolution							2560 (H) × 1440 (V)			
ROM							4 GB			
RAM							1 GB			
Electronic Shutter Speed							1/1 s–1/30,000 s			
Scanning System							Progressive		Perimeter Protection	
Min. Illumination		Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35 0 Lux (IR on)		Face Detection		Support				
Illumination Distance		150 m (492.13 ft)		Auto Tracking		Support				
Illuminator On/Off Control		Zoom Prio/Manual/SmartIR		SMD PLUS		Support				
Illuminator Number		4		Video						
Lens							Compression		H.265; H.264B; H.264M; H.264H; MJPEG (Sub Stream); H.265+; H.264+	
Focal Length		4.9 mm–156 mm					Streaming Capability		3 streams	
Max. Aperture		F1.35–F4.4					Resolution		4M (2560 × 1440); 3M (2048 × 1536); 1080P (1920 × 1080); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Field of View		H: 61.6°–2.1°; V: 35.1°–1.3°; D: 68.2°–2.5°					Frame Rate		Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720p (1–25/30 fps)	
Optical Zoom		32x					Bit Rate Control		Variable/Constant	
Focus Control		Auto/Semi-Auto/Manual					Bit Rate		H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps	
Close Focus Distance		1 m–1.5 m (3.28 ft–4.92 ft)					Day/Night		Auto (ICR)/Color/B/W	
Iris Control		Auto/Manual/Fixed					BLC		Support	
		Detect	Observe	Recognize	Identify	WDR		120 dB		
DORI Distance		3120 m (10236.22 ft)	1232 m (4041.99 ft)	624 m (2047.24 ft)	312 m (1023.62 ft)	HLC		Support		
PTZ							White Balance		Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp	
Pan/Tilt Range		Pan: 0°–360° endless Tilt: –15° to +90°, auto flip 180					Gain Control		Auto/Manual	
Manual Control Speed		Pan: 0.1°/s–300°/s Tilt: 0.1°/s–200°/s					Noise Reduction		2D/3D	
Preset Speed		Pan: 400°/s Tilt: 300°/s					Motion Detection		Support	
Presets		300					Region of Interest (RoI)		Support	
Tour		8 (up to 32 presets per tour)					Image Stabilization		Electronic	
Pattern		5					Defog		Electronic	
Scan		5					Digital Zoom		16x	
Power-off Memory		Support					Flip		180°	
Idle Motion		Preset/Tour/Pattern/Scanning					Privacy Masking		Up to 24 areas, and up to 8 areas in the same view	
		DH-SD					S/N Ratio		≥ 55 dB	
							Audio			
							Network		G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723	
							Ethernet		RJ-45 (10/100Base-T)	

Protocol	Pelco-P/D (auto recognition)	Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP; RTMP
Artificial Intelligence		Interoperability	ONVIF Profile S&G&T; CGI
Event Trigger	Motion detection, video tampering, scene changing, Network disconnection, IP address conflict, illegal access, and storage anomaly.		

Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth 64M)
Storage	FTP; Micro SD card (256G); NAS
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Phone	IOS, Android

Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2, No.60950-1

Port	
Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)
Alarm I/O	2/1

Power	
Power Supply	DC 24 V/2.5 A $\pm$ 25% PoE+ (802.3at)
Power Consumption	Basic: 12 W Max: 20 W

Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	$\leq$ 95%
Protection	IP67; IK10; 6000V lightning proof; surge protection; voltage transient protection

Structure	
Dimensions	Φ 190 mm $\times$ 332 mm (Φ 7.48" $\times$ 13.07")
Net Weight	4.7 kg (10.36 lb)
Gross Weight	8 kg (17.64 lb)

Accessories

Included:



Wall Mount Bracket

Optional:



ACM228
Mount Adapter



ACM242
Power Box



ACM211
Ceiling Mount Bracket



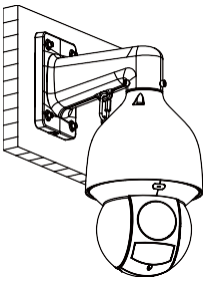
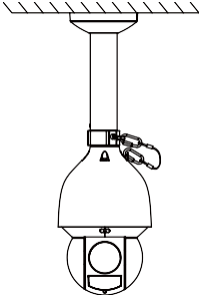
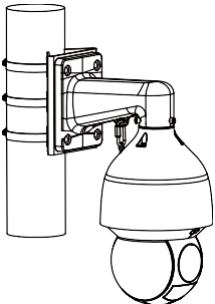
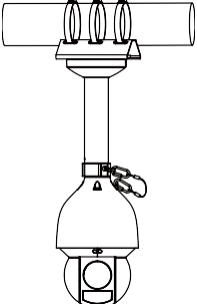
ACM204
Junction Box



ACM203
Pole Mount Bracket



ACM202
Corner Mount
Bracket

Wall Mount	Ceiling Mount
	
Pole Mount(Vertical)	Pole Mount(Horizontal)
	

Dimensions (mm[inch])

