



DH-SD50232XA-HNR

2MP 32x Starlight WizSense Network PTZ Camera



- Wiz Sense
- 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 Dahua's advanced technologies, Wiz-Sense provides intelligent, simple and inclusive products and solutions.

Launched by Dahua Technology, WizSense is a series of AI products and

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, Dahua'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.

- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 32x optical zoom
- · Max. 50/60 fps@1080P
- · Starlight technology
- · Deep-learning-based auto tracking and perimeter protection
- · SMD PLUS
- · PoE+
- · IP66, IK10
- · Face Detection













SMD PLUS

With Deep-Learning Algorithm, Dahua 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	n	SMD PLUS	Support
Camera		Video	
Image Sensor	1/2.8" STARVIS™ CMOS	Compression	H.265; H.264B; H.264M; H.264H; MJPEG (Sub Stream); H.265+; H.264+
Pixel	2MP	Streaming Capability	3 streams
Max. Resolution	1920 (H) x 1080 (V)	Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352×288)
ROM	4 GB		Main stream: 1080P/1.3M/720P (1–50/60 fps)
RAM	1 GB	Frame Rate	Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720P (1–25/30 fps)
Electronic Shutter Speed	1/1 s-1/30000 s	Bit Rate Control	Variable/Constant
Scanning System	Progressive	Bit Rate	H.264: 3 Kbps–20480 Kbps H.265: 3 Kbps–20480 Kbps
Min. Illumination	Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35	Day/Night	Auto (ICR)/Color/B/W
Lens		BLC	Support
Focal Length	4.9 mm-156 mm	WDR	120 dB
Max. Aperture	F1.35-F4.4		
Field of View	H: 62.8°–2.2°; V: 36.7°–1.3°; D: 69.2°–2.6°	HLC	Support Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/
Optical Zoom	32x	White Balance	Natural light/Street lamp
Focus Control	Auto/Semi-Auto/Manual	Gain Control	Auto/Manual
Close Focus Distance	1 m-1.5 m (3.28 ft-4.92 ft)	Noise Reduction	2D/3D
Iris Control	Auto/Manual/Fixed	Motion Detection	Support
ins control	Detect Observe Recognize Identify	Region of Interest (RoI)	Support
DORI Distance	2152 m 850 m 430 m 215 m	Image Stabilization	Electronic
	(7060.37 ft) (2788.71 ft) (1410.76 ft) (705.38 ft)	Defog	Electronic
PTZ		Digital Zoom	16x
Pan/Tilt Range	Pan: 0°–360° endless Tilt: 0° to +90°, auto flip 180	Flip	180°
Manual Control Speed	Pan: 0.1°/s–350°/s Tilt: 0.1°/s–250°/s	Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Preset Speed	Pan: 500°/s	S/N Ratio	≥ 55 dB
Presets	Tilt: 500°/s	Audio	
Tour	8 (up to 32 presets per tour)	Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G722.1; G729; G723
Pattern	5	Network	
Scan	5	Ethernet	RJ-45 (10/100Base-T)
Power-off Memory	Support		IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;
Idle Motion	Preset/Tour/Pattern/Scanning	Protocol	UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP
Protocol	DH-SD Pelco-P/D (auto recognition)	Interoperability	ONVIF Profile S&G&T CGI
Artificial Intelligence	, , ,	Streaming Method	Unicast/Multicast
Smart Capture	Support human, motor vehicle and non-motor vehicle	User/Host	20 (total bandwidth 64M)
	image capture. Tripwire and intrusion. Support alarm triggering by	Storage	FTP; Micro SD card (256G); NAS
Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.	Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Face Detection	Support	Manage 10 S	
Auto Tracking	Support	Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS

Wiz Sense [DH-SD50232XA-HNR
Mobile Phone	IOS, Android
Certification	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL62368-1+CAN/CSA C22.2,No. 62368-1
Port	
Audio Input	1
Audio Output	1 (LINE OUT; bare wire)
Two-way Audio	Support
Alarm I/O	2/1
Power	
Power Supply	DC24V/2.5A PoE+ (802.3at)
Power Consumption	Basic: 10W Max: 16W
Environment	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤ 95%
Protection	IP66; IK10; 6000V lightning proof; surge protection; voltage transient protection
Structure	

Ф186 mm x 253 mm (Ф7.32" x 9.96")

2.5 kg (5.51 lb)

4.5 kg (9.92 lb)

Dimensions Net Weight

Gross Weight:

Ordering	Ordering Information				
Туре	Model	Description			
	DH-SD50232XA-HNR	2MP 32x Starlight WizSense Network PTZ Camera			
2MP WizSense	DH-SD50232XAN-HNR	2MP 32x Starlight WizSense Network PTZ Camera			
PTZ Camera	SD50232XA-HNR	2MP 32x Starlight WizSense Network PTZ Camera			
	SD50232XAN-HNR	2MP 32x Starlight WizSense Network PTZ Camera			
	DC24V/2.5A	Power Adapter			
	PFB300S	Wall Mount Bracket			
	PFA110	Mount Adapter			
	PFA140	Power Box			
Accessories	PFB300C	Ceiling Mount Bracket			
	PFA120	Junction Box			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			

Accessories

Included:



Wall Mount Bracket



Mount Adapter



DC24V/2.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount Bracket



Junction Box



PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



PFB303S Parapet Mount Bracket

nt Bracket Corner i	Mount Bracket Parapet
Ceiling Mount	Junction Mount
PFA110+PFB300C	PFA110+PFB300S+PFA120
Power Box Mount	Pole Mount
PFA110+PFB300S+PFA140	PFA110+PFB300S+PFA150
Corner Mount	Parapet Mount
PFA110+PFB300S+PFA151	PFA110+PFB303S

Dimensions (mm[inch])

