

# DH-SD50232XA-HNR

2MP 32x Starlight WizSense Network PTZ Camera



# Wiz Sense

Launched by Dahua 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 Dahua'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, 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+
- •IP67,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.



# Wiz Sense | DH-SD50232XA-HNR

## **Technical Specification**

#### Camera

Camera				
Image Sensor	1/2.8" STARVIS™ CMOS			
Pixel	2MP			
Max. Resolution	1920 (H) x 10	1920 (H) x 1080 (V)		
ROM	4 GB	4 GB		
RAM	1 GB	1 GB		
Electronic Shutter Speed	1/1 s-1/30000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005 Lux@F1.35 B/W: 0.0005 Lux@F1.35			
Lens				
Focal Length	4.9 mm–156 mm			
Max. Aperture	F1.35-F4.4			
Field of View	H: 62.8°–2.2°; V: 36.7°–1.3°; D: 69.2°–2.6°			
Optical Zoom	32x			
Focus Control	Auto/Semi-Auto/Manual			
Close Focus Distance	1 m–1.5 m (3.28 ft–4.92 ft)			
Iris Control	Auto/Manual/Fixed			
	Detect	Observe	Recognize	Identify
DORI Distance	2152 m (7060.37 ft)	850 m (2788.71 ft)	430 m (1410.76 ft)	215 m (705.38 ft)
PTZ				

#### PTZ

Pan/Tilt Range	Pan: 0°–360° endless Tilt: 0° to +90°, auto flip 180
Manual Control Speed	Pan: 0.1°/s-350°/s Tilt: 0.1°/s-250°/s
Preset Speed	Pan: 500°/s Tilt: 500°/s
Presets	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Support
Idle Motion	Preset/Tour/Pattern/Scanning
Protocol	DH-SD Pelco-P/D (auto recognition)
Artificial Intelligence	
Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Detection	Support
Auto Tracking	Support

VideoCompressionH.265; H.264b; H.264b; H.264H; H.2641; MJPEG (Sub Stream); H.265; H.264b; H.264H; H.264H; MJPEG (Sub Stream); H.265; H.264b; H.264H; H.264H; MJPEG (Sub Stream); Sub Stream I: 000P(1520 × 1080); I.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CT (E325/380 fps)ResolutionJ090P (1920 × 1080); I.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CT (E325/288)Frame RateMain stream: 1030P(1:M/720P (1-50/60 fps) Sub stream I: D1/CT (D-25/30 fps)Bit Rate ControlVariable/ConstantBit Rate ControlVariable/ConstantBit RateH.264: 3 kbps-20480 kbpsDay/NightAuto (ICR)/Color/B/WBLCSupportWOR120 dBHLCSupportWhite BalanceAuto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Matural light/Street lampGain ControlAuto/ManualNoise ReductionSupportImage StabilizationElectronicDefogElectronicDigital ZoomI5kFlip180°Privacy MaskingUp to 24 areas, and up to 8 areas in the same view G7/78 acticS/N Ratio> 55 dBAudioCompressionGr21; G711MU; G.726; AAC; MPEG2-Layer2; G722; G723ProtocolUP+2 (10/100Base-T)ProtocolUP+2 (10/100Base-T)ProtocolUP+2 (10/100Base-T)ProtocolUNE Profile S&&BT CGIInteroperabilityONVIF Profile S&&BT CGIStreaming MethodUnicast/MulticastUser/Host20 (total bandwidth 64M)StorageFTP, Micro SD card (	SMD PLUS	Support
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CompressionG729; G723NetworkEthernetRJ-45 (10/100Base-T)ProtocolIPv4; 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; RTCPInteroperabilityONVIF Profile S&G&T CGIStreaming MethodUnicast/MulticastUser/Host20 (total bandwidth 64M)StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Firefox 52 and earlier versions Safari	Audio	
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ProtocolIPv4; 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; RTCPInteroperabilityONVIF Profile S&G&T CGIStreaming MethodUnicast/MulticastUser/Host20 (total bandwidth 64M)StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Firefox 52 and earlier versions Safari	Network	
ProtocolUPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCPInteroperabilityONVIF Profile S&G&T CGIStreaming MethodUnicast/MulticastUser/Host20 (total bandwidth 64M)StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Firefox 52 and earlier versions Safari	Ethernet	RJ-45 (10/100Base-T)
Streaming MethodUnicast/MulticastUser/Host20 (total bandwidth 64M)StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Sriefox 52 and earlier versions Safari	Protocol	UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP;
User/Host20 (total bandwidth 64M)StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Firefox 52 and earlier versions Safari	Interoperability	ONVIF Profile S&G&T CGI
StorageFTP; Micro SD card (256G); NASBrowserIE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	Streaming Method	Unicast/Multicast
IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	User/Host	20 (total bandwidth 64M)
Browser Chrome 42 and earlier versions Firefox 52 and earlier versions Safari	Storage	FTP; Micro SD card (256G); NAS
Management Software Smart PSS; DSS; DMSS; Easy4ip; IVSS	Browser	Chrome 42 and earlier versions Firefox 52 and earlier versions
	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	IP67; IK10; 6000V lightning proof; surge protection; voltage transient protection
Structure	
Dimensions	Φ186 mm x 253 mm (Φ7.32" x 9.96")
Net Weight	2.5 kg (5.51 lb)
Gross Weight:	4.5 kg (9.92 lb)

Ordering I	nformation
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Туре	Model	Description
	DH-SD50232XA-HNR	2MP 32x Starlight WizSense Network PTZ Camera
2MP WizSense PTZ Camera	DH-SD50232XAN-HNR	2MP 32x Starlight WizSense Network 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:







PFB300S Wall Mount Bracket

PFA110 Mount Adapter

DC24V/2.5A Power Adapter

# **Optional:**







PFB300C Ceiling Mount Bracket

PFA120 Junction Box









PFA150 Pole Mount Bracket

PFA140

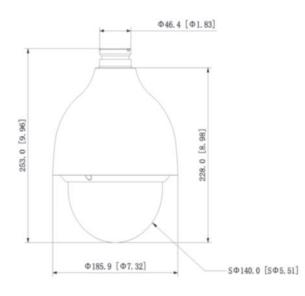
Power Box

PFA151 Corner Mount Bracket

PFB303S Parapet Mount Bracket

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])



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