

DH-SDZ4032-HNR-ZB

4MP 32x Starlight Zoom Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopts 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, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high-quality image and good protection, which make it meet most of the requirements of video surveillance applications.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- 32x optical zoom
- Starlight technology
- H.265 encoding
- Perimeter protection
- Face detection
- Smart capture
- Supports PoE



Starlight Technology

For challenging low-light conditions, Dahua's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

Face Detection

Supports 6 attributes and 4 expressions: Gender, age, glasses and expressions (surprise, calm, happiness, and confusion). It also supports face cutout settings: Face, and single inch photo. Three snapshot methods are also featured: Real-time snapshot, priority snapshot, and quality priority.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Pixel	4 MP
Max. Resolution	2560 (H) x 1440 (V)
ROM	256 MB
RAM	1 GB
Electronic Shutter Speed	1/3 s–1/100,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.35 B/W: 0.0005 lux@F1.35 0 lux (IR light/laser on)

Lens

Focal Length	4.8 mm–154 mm			
Max. Aperture	F1.5–F4.0			
Field of View	H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°			
Optical Zoom	32x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.1 m–1.5 m (0.33 ft–4.92 ft)			
Iris Control	Auto; semi-auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	3080 m (10104.99 ft)	1216.6 m (3991.47 ft)	616 m (2021.00 ft)	308 m (1010.50 ft)

PTZ

Preset	300
Power-off Memory	Yes
Idle Motion	Preset; Tour; Pattern; Scan
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)

Intelligence

Smart Capture	Supports human, motor vehicle and non-motor vehicle image capture.
IVS (Perimeter Protection)	Tripwire and intrusion. Supports alarm triggering by target types (human and vehicle). Supports filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Detection	Yes
SMD	Yes

Video

Video Compression	H.265; Smart H.265+; Smart H.264+; H.264; MJPEG (Sub Stream1)
Streaming Capability	3 streams
Resolution	4 MP (2560 × 1440); 1080p (1920 × 1080); 1.3MP (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)

Video Frame Rate	Main stream: 4 MP/1080p/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	H.264: 2816 kbps–8192 kbps H.265: 1024 kbps–7936 kbps
Day/Night	Auto (ICR); Color; B; W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	EIS
Defog	Digital
Digital Zoom	16x
Image Rotation	180°
S/N Ratio	≥55 dB

Audio

Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1
-------------------	--

Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMP v1/v2c/v3 (MIB-2); RTCP; RTMP
Interoperability	ONVIF (Profile S&G&T); CGI
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 Mbps)
Storage	FTP; Micro SD card (max. 512 GB); NAS
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	DSS; DMSS; NVR; Smart PSS; IVSS
Mobile Client	iOS; Android

Certification

Certifications	CE:EN55032/EN55024/EN50130-4 FCC:Part15 subpartB, ANSI C63.4-2014
----------------	--

Port

RS-485	Yes
--------	-----

Audio Input	1 channel (LINE IN,3.5mm JACK)
Audio Output	1 channel (LINE OUT,3.5mm JACK)
Alarm I/O	2/1
Audio I/O	1/1
Alarm Linkage	Capture; preset; tour; pattern; SD card recording; triggering on-off value output; sending email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection

Power

Power Supply	12 VDC, 1.5 A (±10%) PoE (802.3af)
Power Consumption	6 W

Environment

Operating Temperature	-25 °C to +60 °C (-13 °F to +140 °F)
Operating Humidity	≤95% (RH)
Protection	TVS 6000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	160.3 mm × 70.0 mm × 70.0 mm (6.31" × 2.76" × 2.76") (L × W × H)
Net Weight	0.8 kg (1.76 lb)

Accessories

Optional:



PFH610V Housing



PFH610V-H Housing

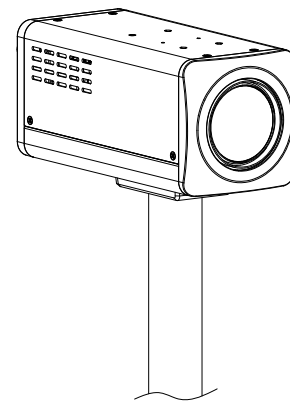


PFH610V-H-POE Housing



DC12V/1.5A Power Adapter

Installation



Ordering Information

Type	Model	Description
4M Camera	DH-SDZ4032-HNR-ZB	4MP 32x Starlight Zoom Network Camera, PAL
	DH-SDZ4032N-HNR-ZB	4MP 32x Starlight Zoom Network Camera, NTSC
	SDZ4032-HNR-ZB	4MP 32x Starlight Zoom Network Camera, PAL
	SDZ4032N-HNR-ZB	4MP 32x Starlight Zoom Network Camera, NTSC
Accessories	DC12V/1.5A	Power Adapter
	PFH610V	Housing
	PFH610V-H	Housing
	PFH610V-H-POE	Housing

Dimensions (mm[inch])

