

DHI-HY-SAV849HA-E

5MP IR AI-fire Smoke Sensing Network Camera



System Overview

Together with high-performance microprocessor and advanced electronic technology, Al-fire Smoke Sensing Network Camera has the characteristics of high sensitivity and stability. Based on the mounting bracket, it can be easily installed on the ceiling. With built-in high-decibel buzzer, it will send out a sound and light alarm signal in time to remind users to take effective measures immediately when the smoke concentration reaches the alarm setting value.

Functions

Multiple Sensing Technology

This device integrates functions of video surveillance and smoke detection, offering a solution to do the remote check through the camera.

Fire Prevention Management

The device integrates multiple intelligent algorithms, including flame detection, off-duty detection, phone call detection and phone usage detection, which are especially designed for fire prevention management.

Fire Detection & Alarm

With built-in fire detection function, the camera has the ability to detect fire from a long distance. Because camera integrates smoke sensing chamber and flame detection algorithm, it can provide higher fire detection accuracy than general thermal camera.

Lower False Alarm

The smart algorithm of automatic compensation against dust concentration helps reduce false alarms. Based on the advanced chamber technology with dual photoelectric smoke sensing components, the device has higher accuracy rate on smoke detection.

High-quality Video

Supporting 5MP video output, the camera enables users to pinpoint the fire location.

- · Remote check based on smoke sensing and video alarm linkage
- · Intelligent monitoring: Flame detection, off-duty detection, phone call detection, and phone usage detection
- \cdot With dual photoelectric smoke sensing chamber and intelligent algorithm, eliminate the false alarm effectively
- · Ultra-low power consumption design allows 3-year operation of smoke sensing module with built-in battery
- · Built-in high decibel buzzer, smoke alarm is over 80 dB at 3 meters
- · Self-test and low battery warning
- · Intelligent compensation algorithm relieves the impact of dust accumulation and environment changing on smoke sensing module
- · Insect-proof and dust-proof design for smoke sensing module
- · Built-in 7 alarm voices, and user can import custom voices
- · 5MP 1/2.7" CMOS image sensor, low luminance, and high definition image
- · H.265 codec, high compression rate, ultra-low bit rate
- · Flip mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- \cdot 2/2 Alarm in/out, 1/1 audio in/out; supports max. 256 GB Micro SD card; built-in Mic and speaker
- · Flip mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · 12V DC/PoE power supply
- · Built-in IR light; the max. IR LEDs Length is 20 m (65.62 ft)









Scene

This device is applicable to most places where both fire alarm and video surveillance are needed, such as:

- ·Chain stores
- ·Unattended base stations
- ·Unmanned power distribution rooms
- ·ATM areas
- ·Libraries
- ·Garbage rooms



Technical Specification		Video	Manual record; external alarm; alarm video
Smoke Detector		Micro SD Card	record; timing record Max. 256 GB
	Standby: Green indicator flashes once per		
Indicators	minute Fault: Red indicator flashes once per minute Alarm: Red indicator flashes once per second	Compression	H.265; H.264; H.264H; H.264B
	Self-testing: Red indicator flashes once per second	Smart Codec	Smart H.265+/ Smart H.264+ 50 Hz:
Protection Area	30 m ² -60 m ²		Main stream (2688 × 1520@25 fps/2688 × 1520@25 fps/2304 × 1296@25 fps)
Operating Principle	Photoelectric	Sub stree 576@25 Third str 1080@1 Frame Rate Main str 1520@3 1080@3 Sub stree	Sub stream (704 × 576@25 fps/(704 × 576@25 fps/(704 × 576@25 fps)
Alarm Method	Sound and LED Indicator		Third stream(704 × 576@25 fps/1920 × 1080@14 fps/1920 × 1080@25 fps)
Power	12V DC/PoE and 3V lithium battery		Main stream (2688 × 1520@30 fps/2688 ×
Operating Current	≤ 30uA (Camera excluded) ≤ 300mA (Camera included)		1520@30 fps/1280 × 720@30 fps/1920 × 1080@30 fps) Sub stream (704 × 480@30 fps/704 × 480@30 fps/704 × 480@30 fps)
Back-up Battery Life	> 3 years		Third stream (1920 × 1080@25 fps/704 × 480@30
Alarm Classification	Smoke alarm, fault alarm, low battery alarm		fps/1920 × 1080@30 fps)
Alarm Sound Pressure	≥ 80 dB (A) @ 3 m (9.84 ft)	Video Bit Rate	H.264: 32 Kbps–10240 Kbps H.265: 12 Kbps–7168 Kbps
Network Camera		Day/Night	Auto (ICR)
Appearance	Circular	BLC	Yes
Image Sensor	1/2.7" CMOS	HLC	Yes
Max. Resolution	2592 (H) × 1944 (V)	WDR	90 dB
Scanning System	Progressive	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed	Auto/Manual 1/3s~1/100000s	Gain Control	Auto; manual
Minimum Illumination	0.002Lux (color) 0.0002Lux (dark)	Noise Reduction	3D NR
	OLux (IR)	Default Frame Rate under Default Resolution	4096 Kbps (2592 × 1944)
S/N Ratio	> 56 dB	Defog	Yes
Illumination Distance	Distance up to 20 m (65.62 ft)	Image rotation, mirroring, flipping	Yes
Illuminator Number	2 (IR LED)	Privacy Masking	8 areas
Lens		Audio	
Lens Type	Fixed-focal	Audio Interface	Yes
Mount Type	M8	Built-in MIC	Yes
Focal Length	2.0 mm	Built-in Speaker	Yes
Aperture	F2.0	Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
Field of View	Horizontal: 144°; Vertical: 92°; Diagonal: 179.6°	Audio Sampling Frequency	8KHz/16KHz/32KHz/48KHz/64KHz
Iris Control	Fixed	Alarm	
Close Focus Distance	0.2 m (0.66 ft)	Aldilli	No SD card; SD card full; SD card error;
Artificial Intelligence			network disconnection; IP conflict; illegal access; motion detection; video tampering;
Al Event	Flame detection, off-duty detection, call detection, detection, call detection, neglect of duty detection and missing object detection	Alarm Event	scene changing; smart motion detection; audio detection; flame detection; off-duty detection; call detection; phone usage detection; smoke detected alarm; fault alarm; smoke alarm disconnected; low
Video			battery alarm
Image Setting	Brightness; contrast; sharpness; saturation; gamma	Network	
		Communication	1 RJ-45 PoE 10M/100M Ethernet ports



Protocol	HTTP;TCP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DH CP;DNS;DDNS;IPv4/v6;SNMP;QoS;UPnP;NTP
Interoperability	ONVIF; MileStone; Genetec; CGI; PISA
User	10 channels at most
Storage	FTP; SFTP; Micro SD card (256G); NAS
Browser	IE7 and newer versions; Chrome 8+; Firefox 3.5+; Safari 5+
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1X; controlled network access
Cartification	

Ordering Information		
Туре	Part Number	Description
Al-Fire Smoke Sensing Network Camera	DHI-HY-SAV849HAP-E	5MP IR AI-fire Smoke Sensing Network Camera with PAL standard
	DHI-HY-SAV849HAN-E	5MP IR AI-fire Smoke Sensing Network Camera with NTSC standard
Accessories (optional)	PFM300-E	DC Adapter
	PFM301-E	Power

Certification

	CE-LVD: EN 62368-1
Certification	CE-EMC: Electromagnetic Compatibility
Certification	Directive 2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input Interface	2 channels In: 5mA 5V DC
Alarm Output Interface	2 channels Out: 300mA 12V DC
RS 485 Port	1 channel

Electrical

Operating Power	Adapter: 12V DC(±25%); PoE: 802.3af
Power Supply	DC12V+PoE
Power Consumption	Basic power consumption: 2.1W (12V DC); 2W (PoE) Max. power consumption (ICR + IR LED intensity): 4.9W (12V DC); 4.8W (PoE)

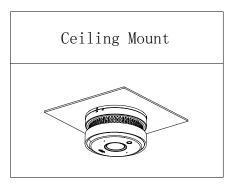
Environmental

Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Operating Humidity	0%–95% RH (non-condensing)

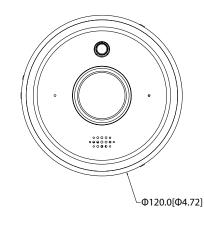
Construction

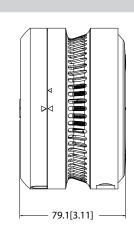
Casing	Plastic
Product Dimensions	Φ120 mm×79 mm (Φ4.72" × 3.11")
Package Dimensions	164 mm × 153 mm × 111 mm (6.46" × 6.02" × 4.37")(L × W × H)
Net Weight	426 g (0.94 lb)
Gross Weight	562 g (1.24 lb)
Installation	Ceiling mount
Power Adapter	Excluded
Lens	Included

Installation



Dimensions (mm[inch])





Rev 001.00