

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 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 and multiple fire prevention methods 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
- · With split-spectrum smoke 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 alarm voices, and user can import custom voices
- \cdot 5MP 1/2.7" CMOS image sensor, low luminance, and high definition image
- · H.265 codec, high compression rate, ultra-low bit rate
- \cdot 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
- \cdot 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 record; timing record
Smoke Detector		Micro SD Card	Max. 256 GB
	Standby: Green indicator flashes once per minute	Compression	H.265; H.264; H.264H; H.264B
Indicators Fault: Red indicator flashes once per minute Alarm: Red indicator flashes once per second	Smart Codec	Smart H.265+/ Smart H.264+	
	Self-testing: Red indicator flashes once per second	Frame Rate	Main stream: 2592×1944 (1 fps-20 fps) 2688×1520 (1 fps-25/30 fps) 2560×1440 (1 fps-25/30 fps) 2304×1296 (1 fps-25/30 fps) 1920×1080 (1 fps-25/30 fps) Sub stream: D1 (1 fps-20 fps)
Protection Area	30 m ² -60 m ²		
Operating Principle	Photoelectric		
Alarm Method	Sound and LED Indicator		
Power	12V DC/PoE and 3V lithium battery		D1 (1 fps-25/30 fps) Third stream:
Operating Current	≤ 30uA (Camera excluded) ≤ 300mA (Camera included)	W.L. BU.D.	1920×1080 (1 fps-17/24 fps) H.264: 32 Kbps-10240 Kbps
Back-up Battery Life	> 3 years	Video Bit Rate	H.265: 12 Kbps-7168 Kbps
Alarm Classification	Smoke alarm, fault alarm, low battery alarm	Day/Night	Auto (ICR)
Alarm Sound Pressure	≥ 80 dB (A) @ 3 m (9.84 ft)	BLC	Yes
Network Camera		HLC	Yes
Appearance	Circular	WDR	90 dB
Image Sensor	1/2.7" CMOS	White Balance	Auto/natural/street lamp/outdoor/manual/ regional custom
Max. Resolution	2592 (H) × 1944 (V)	Gain Control	Auto; manual
Scanning System	Progressive	Noise Reduction	3D NR
Electronic Shutter Speed	Auto/Manual 1/3s~1/100000s	Default Frame Rate under Default Resolution	2048 Kbps (2688 × 1520)
Minimum Illumination	0.007Lux (color) 0.003Lux (dark)	Defog	Yes
	OLux (IR)	Image rotation, mirroring, flipping	Yes
S/N Ratio	> 56 dB	Privacy Masking	8 areas
Illumination Distance	Distance up to 20 m (65.62 ft)		English; TradChinese; Italian; Spanish; Japanese; Russian; French; German; Portuguese; Turkish; Polish; Romanian; Hungarian; Korean; Czech; Dutch;
Illuminator Number	2 (IR LED)	Language	
Lens			Ukrainian; Vietnamese; Arabic; SpanishEU; Hebrew; Thai; Bahasa Indonesia
Lens Type	Fixed-focal	Audio	
Mount Type	M8	Audio Interface	Yes
Focal Length	2.0 mm	Built-in MIC	Yes
Aperture	F2.0	Built-in Speaker	Yes
Field of View	Horizontal: 144°; Vertical: 92°; Diagonal: 179.6°	Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
Iris Control	Fixed	Audio Sampling Frequency	8KHz/16KHz/32KHz/48KHz/64KHz
Close Focus Distance	0.2 m (0.66 ft)	Alarm	
Artificial Intelligence			No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal
Al Event	Flame detection	access; motion detection; vid Alarm Event scene changing; smart motion audio detection; flame detec	access; motion detection; video tampering; scene changing; smart motion detection;
Video			audio detection; flame detection; smoke detected alarm; fault alarm; smoke alarm
Image Setting	Brightness; contrast; sharpness; saturation; gamma	Network	disconnected; low battery alarm
OSD	Channel/time/place/voltage of back-up		1 R L-45 PoE 10M/100M Ethornot ports
	battery	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
Certification	

Ordering Information		
Туре	Part Number	Description
Al-Fire Smoke Sensing Network Camera	DHI-HY-SAV849HAP-E	5MP IR Al-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

	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)

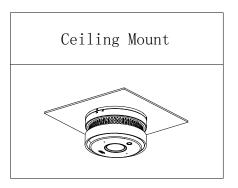
Environmental

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	442 g (0.98 lb)
Gross Weight	613 g (1.35 lb)
Installation	Ceiling mount
Power Adapter	Excluded
Lens	Included

Installation



Dimensions (mm[inch])

