

# 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
- · 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
- $\cdot$  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



Smoke Detector			
		Micro SD Card	Max. 256 GB
	minute	Compression	H.265; H.264; H.264H; H.264B
	Fault: Red indicator flashes once per minute Alarm: Red indicator flashes once per second Self-testing: Red indicator flashes once per	Smart Codec	Smart H.265+/ Smart H.264+
	second		50 Hz: Main stream (2688 × 1520@25 fps/2688 ×
Protection Area	30 m <sup>2</sup> -60 m <sup>2</sup>		1520@25 fps/2304 × 1296@25 fps) Sub stream (704 × 576@25 fps/(704 ×
Operating Principle	Photoelectric		5/6@25 tps/(/04 × 5/6@25 tps) Third stream(704 × 576@25 fps/1920 × 1080@14 fps/1920 × 1080@25 fps)
Alarm Method	Sound and LED Indicator	Frame Rate	60 Hz: Main stream (2688 × 1520@30 fps/2688 ×
Power	12V DC/PoE and 3V lithium battery		1520@30 fps/1280 × 720@30 fps/1920 × 1080@30 fps)
Operating Current	≤ 30uA (Camera excluded) ≤ 300mA (Camera included)		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) H.264: 32 Kbps–10240 Kbps
Alarm Sound Pressure	≥ 80 dB (A) @ 3 m (9.84 ft)	Video Bit Rate	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	GMILI GMILI SZMILI TOMILI OTMIZ
Close Focus Distance	0.2 m (0.66 ft)	Alaitti	No SD card; SD card full; SD card error;
Artificial Intelligence	Flame detection, off-duty detection, call detection, detection, call detection, neglect of duty detection and missing object	Alarm Event	network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; smart motion detection; audio detection; flame detection; off-duty detection; call detection; phone usage detection; smoke detected alarm; fault
Video	detection	alarm; smoke detected alarn; radit alarm; smoke alarm disconnected; low battery alarm	alarm; smoke alarm disconnected; low
Image Setting	Brightness; contrast; sharpness; saturation;	Network	
	gamma Channel/time/place/veltage of back up	Communication	1 RJ-45 PoE 10M/100M Ethernet ports
OSD	Channel/time/place/voltage of back-up battery		

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	DHI-HY-SAV849HAP-E	5MP IR AI-fire Smoke Sensing Network Camera with PAL standard
Sensing Network Camera	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)

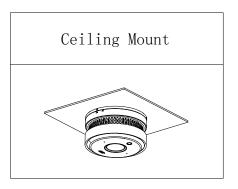
#### Environmental

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])

