

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 de-Chain stores tect 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
- 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
- · 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:

·Unattended base stations

·Unmanned power distribution rooms

·ATM areas

Libraries

·Garbage rooms



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Technical Specification		Video
Smoke Detector		Micro S
Indicators	Standby: Green indicator flashes once per minute Fault: Red indicator flashes once per minute Alarm: Red indicator flashes once per second	Compr Smart
	Self-testing: Red indicator flashes once per second	
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	Frame
Operating Current	≤ 30uA (Camera excluded) ≤ 300mA (Camera included)	
Back-up Battery Life	> 3 years	
Alarm Classification	Smoke alarm, fault alarm, low battery alarm	
Alarm Sound Pressure	≥ 80 dB (A) @ 3 m (9.84 ft)	Video
Network Camera		Day/N
Appearance	Circular	BLC
Image Sensor	1/2.7" CMOS	HLC
Max. Resolution	2592 (H) × 1944 (V)	WDR
Scanning System	Progressive	White
Electronic Shutter Speed	Auto/Manual 1/3s~1/100000s	Gain C
Minimum Illumination	0.002Lux (color) 0.0002Lux (dark)	Noise
C/N D-H-	OLux (IR)	Defaul Resolu
S/N Ratio		Defog
	Distance up to 20 m (65.62 ft)	Image
Illuminator Number	2 (IR LED)	Privacy
Lens		Audi
Lens Type	Fixed-focal	Audio
Mount Type	M8	Built-ir
Focal Length	2.0 mm	Built-ir
Aperture	F2.0	Audio
Field of View	Horizontal: 144°; Vertical: 92°; Diagonal: 179.6°	Audio
Iris Control	Fixed	Alarr
Close Focus Distance	0.2 m (0.66 ft)	
Artificial Intelligence		
Al Event	Flame detection, off-duty detection, call detection, detection, call detection, neglect of duty detection and missing object detection	Alarm
Video		
Image Setting	Brightness; contrast; sharpness; saturation; gamma	Netw
OSD	Channel/time/place/voltage of back-up battery	Comm

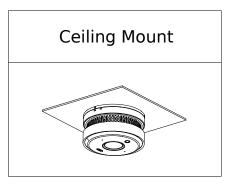
Video	Manual record; external alarm; alarm video record; timing record
Micro SD Card	Max. 256 GB
Compression	H.265; H.264; H.264H; H.264B
Smart Codec	Smart H.265+/ Smart H.264+
Frame Rate	50 Hz: Main stream (2688 × 1520@25 fps/2688 × 1520@25 fps/2304 × 1296@25 fps) Sub stream (704 × 576@25 fps)(704 × 576@25 fps/(704 × 576@25 fps) Third stream(704 × 576@25 fps)(1920 × 1080@14 fps/1920 × 1080@25 fps) 60 Hz: Main stream (2688 × 1520@30 fps/2688 × 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) Third stream (1920 × 1080@25 fps/704 × 480@30 fps/1920 × 1080@30 fps)
Video Bit Rate	H.264: 32 Kbps-10240 Kbps H.265: 12 Kbps-7168 Kbps
Day/Night	Auto (ICR)
BLC	Yes
HLC	Yes
WDR	90 dB
White Balance	Auto/natural/street lamp/outdoor/manual/ regional custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Default Frame Rate under Default Resolution	4096 Kbps (2592 × 1944)
Defog	Yes
Image rotation, mirroring, flipping	Yes
Privacy Masking	8 areas
Audio	
Audio Interface	Yes
Built-in MIC	Yes
Built-in Speaker	Yes
Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; G.723
Audio Sampling Frequency	8KHz/16KHz/32KHz/48KHz/64KHz
Alarm	
Alarm Event	No SD card; SD card full; SD card error; 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 alarm; smoke alarm disconnected; low battery alarm
Network	
Communication	1 RJ-45 PoE 10M/100M Ethernet ports

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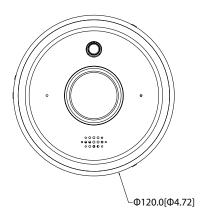
InteroperabilityONVIF; MileStone; Genetec; CGI; PISAUser10 channels at mostStorageFTP; SFTP; Micro SD card (256G); NASBrowserIE7 and newer versions; Chrome 8+; Firefox 3.5+; Safari 5+SecurityAuthorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1X; controlled network accessCertificationCE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart BPortAudio InputAudio Output1 channel (RCA port)Alarm Input Interface2 channels In: 5mA 5V DCAlarm Output Interface2 channels Out: 300mA 12V DCRS 485 Port1 channel
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Alarm Input Interface2 channels In: 5mA 5V DCAlarm Output Interface2 channels Out: 300mA 12V DCRS 485 Port1 channel
Alarm Output Interface2 channels Out: 300mA 12V DCRS 485 Port1 channel
RS 485 Port 1 channel
Flectrical
Licethear
Operating Power Adapter: 12V DC(±25%); PoE: 802.3af
Power Supply DC12V+PoE
Power Consumption Basic power consumption: 2.1W (12V DC); 2W (PoE) 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

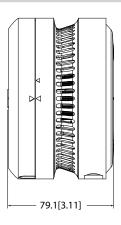
Ordering Information				
Туре	Part Number	Description		
Al-Fire Smoke Sensing Network Camera	DHI-HY-SAV849HAP-E	5MP IR AI-fire Smoke Sensing Network Camera with PAL standard		
	DHI-HY-SAV849HAN-E	5MP IR AI-fire Smoke Sensing Network Camera with NTSC standard		
Accessories (optional)	РҒМ300-Е	DC Adapter		
	PFM301-E	Power		

Installation



Dimensions (mm[inch])





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