DHI-HY-SA21A-W2(868)

Wireless Smoke Alarm



- Split-spectrum sensor technology
- Test and silence features in one single button
- Loud sound output over 85 dB(A) at 3 meters
- Low quiescent current consumption
- Surface-mount device (SMD) circuit board design
- Low battery warning signal

System Overview

Dahua Wireless Smoke Alarm provides battery-powered smoke detection and alarm functions within a single unit. Advanced electronics in conjunction with a photoelectric smoke sensing chamber provide early detection of smoke and high immunity against unwanted alarms. This kind of smoke alarm does not require a mains supply and is suitable for general residential applications. Timely notification of the smoke alarm can be displayed on DMSS App in real time.

Scene

Mainly applied for villas, shops, apartments, etc.

Technical Specification

Working Principle

Collection Type	Smoke
Sampling Period	10 s
Sensor Type	Photoelectric

Alarm

Alarm Type	Smoke alarm, fault warning, low battery warning
Alarm Volume	85dB–90dB(A) at 3 m (9.84 ft)
Alarm Mode	Visual and audible alarm
Silence Function	Yes
Silence Duration	About 12 min
Alarm Response Threshold	0.2 dB/m - 0.3 dB/m

Technical Specification

Basic Parameters

Indicator Light	Red and green LED indicator
Led Instructions	Standby: Green indicator flashes once per minute Alarm: Red indicator flashes once per second Fault: Red indicator flashes once per minute Low battery warning: Red indicator flashes once per minute
Coverage Area	When the height of the space is less than 8 m (26.25 ft), the protection area of a device is 20 m^2–40 m^2

Power Supply

Battery Life	3 year
Operating Voltage	3V CR123A lithium battery (replaceable)
Operating Current	Monitoring current: ≤ 35uA Alarm current: ≤ 35mA

Operating Ambient

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

Appearance

Color	White
Casing	ABS
Dimensions	ϕ98mm × H43.1mm (ϕ3.85" × H1.70")
Weight	140 g (0.30 lb)
Installation	Ceiling Mount

Smoke Alarm | DHI-HY-SA21A-W2(868)

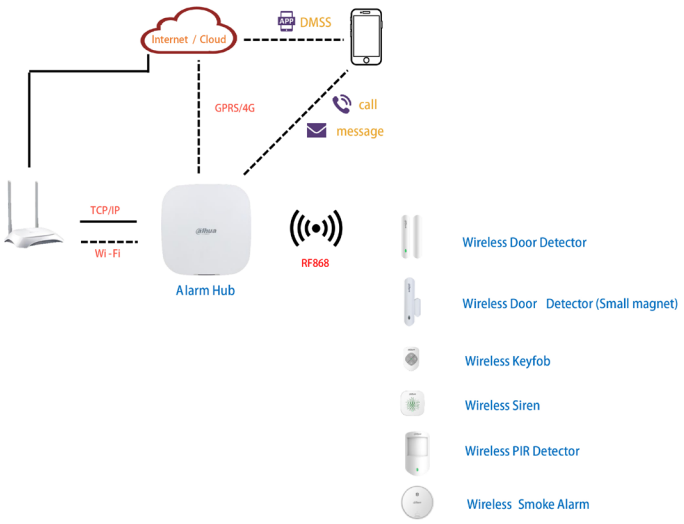
Certifications

Certifications	TÜV and CE listed
Compliance Standard	EN 14604:2005+AC:2008

Wireless

Carrier Frequency	868 MHz–868.3 MHz
Communication Distance	Up to 1000 m (3280.84 ft) in an open space
Communication Mechanism	Two-way
Frequency Hopping	Yes
Encryption Mode	AES128

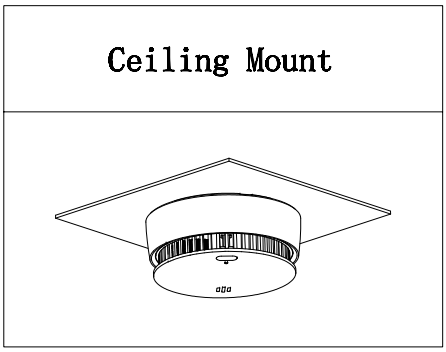
Application



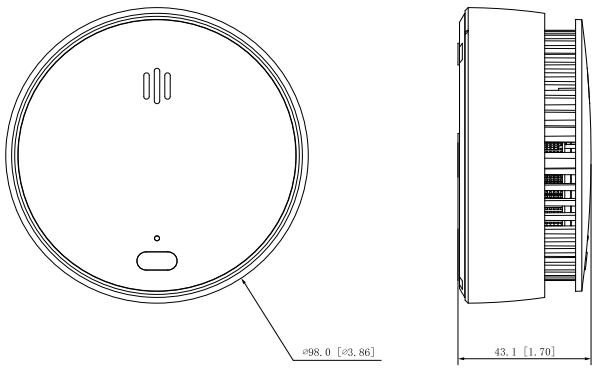
Ordering Information

Type	Part Number	Description
Smoke Alarm	DHI-HY-SA21A-W2(868)	Wireless Smoke Alarm

Installation



Dimensions (mm[inch])



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