

# 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 alarm, 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 (3.28 ft), the protection area of a device is 20 m <sup>2</sup> –40 m <sup>2</sup>

#### 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

## Certifications

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

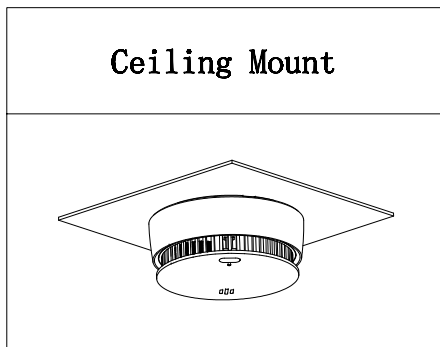
## Wireless

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

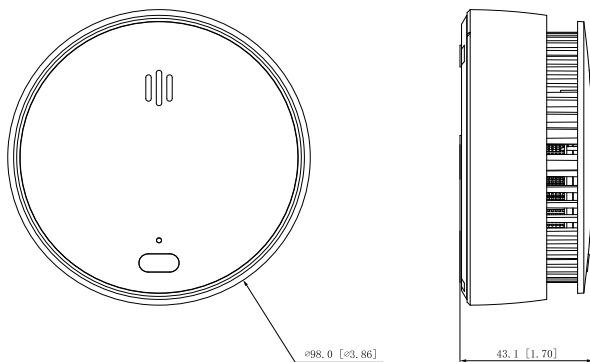
## Ordering Information

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

## Installation



## Dimensions (mm[inch])



## Application

