# 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<br>Alarm: Red indicator flashes once per second<br>Fault: Red indicator flashes once per minute<br>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 $m^2$–40 $m^2$ |

### Power Supply

| | |
|---|---|
| Battery Life | 3 year |
| Operating Voltage | 3V CR123A lithium battery (replaceable) |
| Operating Current | Monitoring current: ≤ 35uA<br>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)

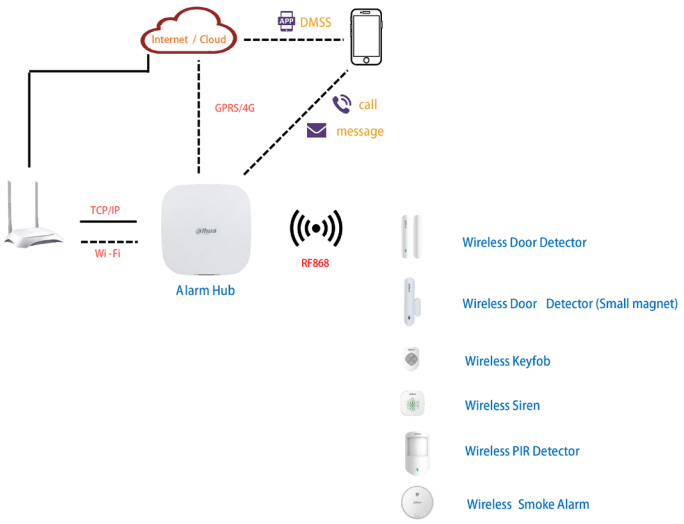
## Certifications

| | |
|---|---|
| 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 |

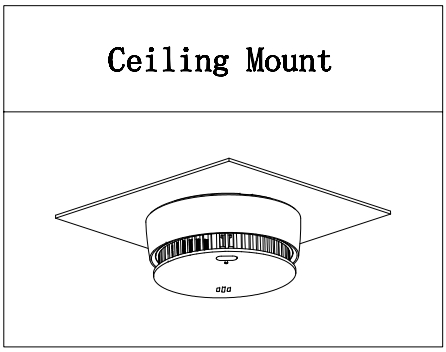
## Application

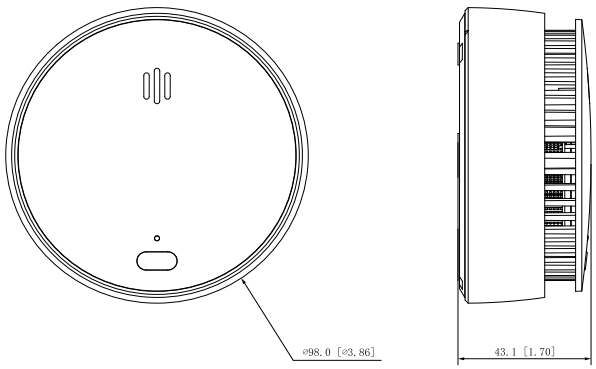



## Ordering Information

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

## Installation




## Dimensions (mm[inch])