

# DHI-HY-SA21A-W2

Wireless Smoke Alarm



- · Split-spectrum sensor technology
- $\cdot$  Test and silence features in one single button
- · Loud sound output over 85 dB(A) at 3 meters
- $\cdot$  Low quiescent current consumption
- $\cdot$  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**

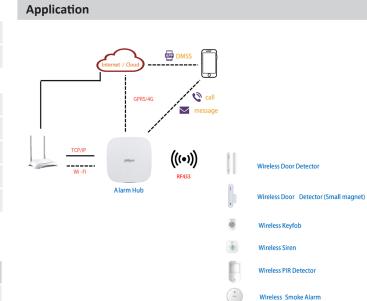
#### **Basic Parameters**

| Indicator Light   | Red and green LED indicator  |
|---|--|
| Led Instructions  | Standby: Green indicator flashes once per<br>minute<br>Alarm: Red indicator flashes once per second<br>Fault: Red indicator flashes once per minute<br>Low battery warning: Red indicator flashes<br>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<br>Alarm current: ≤ 35mA  |
| Operating Ambient   |  |
| -   |  |
| Operating Environment   | Indoor   |
|   | Indoor<br>-10°C to +55°C (+14°F to +131°F)   |
| Operating Environment   |  |
| Operating Environment<br>Operating Temperature  | -10°C to +55°C (+14°F to +131°F)   |
| Operating Environment<br>Operating Temperature<br>Operating Humidity  | -10°C to +55°C (+14°F to +131°F)   |
| Operating Environment<br>Operating Temperature<br>Operating Humidity<br>Appearance                                  | -10°C to +55°C (+14°F to +131°F)<br>≤ 95% RH (non condensing)  |
| Operating Environment<br>Operating Temperature<br>Operating Humidity<br>Appearance<br>Color                         | -10°C to +55°C (+14°F to +131°F)<br>≤ 95% RH (non condensing)<br>White   |
| Operating Environment<br>Operating Temperature<br>Operating Humidity<br>Appearance<br>Color<br>Casing               | -10°C to +55°C (+14°F to +131°F)<br>≤ 95% RH (non condensing)<br>White<br>ABS  |
| Operating Environment<br>Operating Temperature<br>Operating Humidity<br>Appearance<br>Color<br>Casing<br>Dimensions | -10°C to +55°C (+14°F to +131°F)<br>≤ 95% RH (non condensing)<br>White<br>ABS<br>\$\\$98 mm × H43.1 mm (\$\\$3.85" × H1.70")   |

# Smoke Alarm | DHI-HY-SA21A-W2

# Certifications

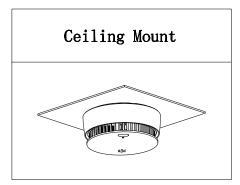
| Certifications          | TÜV and CE listed                          |
|-------------------------|--|
| Compliance Standard     | EN 14604:2005+AC:2008                      |
| Wireless                |  |
| Carrier Frequency       | 433.1 MHz-434.6 MHz                        |
| Communication Distance  | Up to 1000 m (3280.84 ft) in an open space |
| Communication Mechanism | Two-way                                    |
| Frequency Hopping       | Yes  |
| Encryption Mode         | AES128                                     |



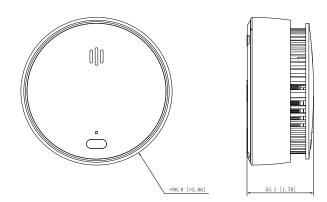
| Orc | leri | ing | Inf | formation |  |
|-----|------|-----|-----|-----------|--|
|-----|------|-----|-----|-----------|--|

| Туре        | Part Number     | Description          |
|-------------|-----------------|----------------------|
| Smoke Alarm | DHI-HY-SA21A-W2 | Wireless Smoke Alarm |

### Installation



# Dimensions (mm[inch])



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