

DHI-HY-SA30A-R9

Wireless Interconnected 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
- Built-in battery, easy installation
- Silenced by a working infrared remote controller
- Wireless interconnected with maximum of 24 devices



System Overview

Wireless Interconnected Smoke Alarm (hereinafter referred to as the device) is designed to continuously monitor smoke concentration. Adopting new split-spectrum sensor and a built-in high-volume buzzer, it responds quickly and becomes highly sensitive with stable performance and low false alarm. Once the surrounding smoke concentration reaches the alarm value, it will promptly send out visual and audible alarm signal to remind the user to take immediate measures. Moreover, the alarm signal will be pushed to every alarms in the interconnected network and they will raise the alarm in unison.

Scene

The device can be widely used in residential areas such as villas, apartments and dorms, including reading rooms, living rooms, bedrooms and hallways.

Technical Specification

Working Principle

Collection Type	Smoke
Sampling Period	9 s
Working Principle	Photoelectric

Alarm

Alarm Type	Smoke alarm, fault alarm, low battery warning
Alarm Volume	85dB (A) at 3 m (9.84 ft)
Alarm Mode	Visual and audible alarm
Silencing Function	Yes

Technical Specification

Silence Duration	12 min
Infrared Silence	Yes
Pre-Set Alarm Value	0.2dB/m-0.3dB/m

Basic Parameters

Indicator Light	Alarm, fault and operation 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
Operating Frequency	925 MHz
Radio Signal Range	Up to 1000 m (3280.84 ft) in open air
Maximum Number of Interconnected Units	24pcs
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	10 years
Power Source	3V CR123A lithium battery (non-replaceable)
Operating Current	Monitoring current: ≤ 15uA (avg.) Alarm current: ≤ 25mA (avg.)

Operating Ambient

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

Technical Specification

Appearance

Color	White
Casing	PC+ABS
Dimensions	φ98 mm × H43.1 mm (φ3.85" × H1.70")
Weight	138 g (0.30 lb)
Installation	Ceiling Mount, Wall Mount

Certification

Certifications	TÜV listed
Compliance Standard	AS 3786: 2014+A1+A2

Ordering Information

Type	Part Number	Description
Smoke Alarm	DHI-HY-SA30A-R9	Wireless Interconnected Smoke Alarm

Dimensions (mm/inch)

