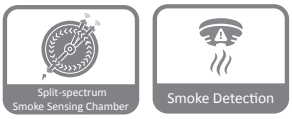
DHI-HY-SA40A-R8

Wireless Interconnected Smoke Alarm



- Split-spectrum sensor technology
- Test and silence features in one single button, silenced by a working infrared remote controller
- 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
- Sealed lithium battery, easy installation
- 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 warning, 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	9 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 twice per minute
Operating Frequency	868MHZ
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 (26.25 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: ≤ 35mA (avg.)
Operating Ambient	
Operating Environment	Indoor
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Operating Humidity	≤ 95% RH (non condensing)

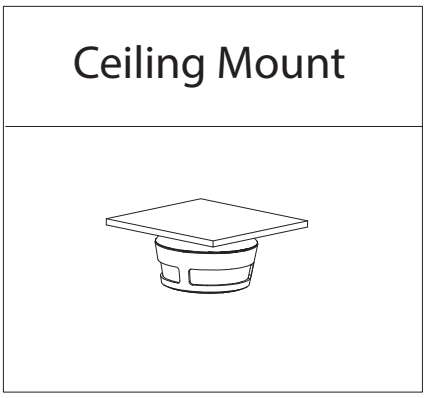
Technical Specification

Appearance	
Color	White
Casing	PC+ABS
Dimensions	ϕ81.5 mm × H51.6 mm (ϕ3.21" × H2.03")
Weight	110 g (0.24 lb)
Installation	Ceiling Mount
Certification	
Certifications	TÜV and CE listed
Compliance Standard	EN 14604:2005+AC:2008 EN 62479:2010 EN 50130-4:2011+A1 EN 301489-1 V 2.2.3:2019 EN 301489-3 V 2.1.1:2019

Ordering Information

Type	Part Number	Description
Smoke Alarm	DHI-HY-SA40A-R8	Wireless Interconnected Smoke Alarm (sealed lithium battery)

Installation



Dimensions (mm/inch)

