

DHI-HY-SA40A-R8

Wireless Interconnected Smoke Alarm











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	

- · 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

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)	

≤ 95% RH (non condensing)

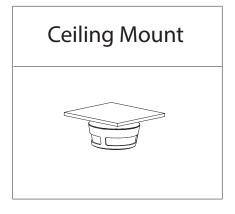
Operating Humidity



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

Installation



Dimensions (mm/inch)

