Outdoor Siren

Download Spec

The wireless alarm sirens with loud sounds and flashing lights are designed to grab attention of your community and scare off any vandals effectively.

1. Siren Performance

Type of notification

- Sound & Strobe

Sound volume level

- Adjustable: 85 dB / 95 dB / 105 dB

Alarm time

- Adjustable: 1s ~ 15mins
  > *90s by default*

2. Features

Solar Panel

- Support

IP Rate

- IP65

Volume test

- Support

Tamper Protection

- Rear

Remote setting and testing

- Setting and testing from RB Link App

Advanced features

- Power up enrolling
  When siren is powered up, it will automatically start paring to the hub nearby
- Find me
  When enabled, the siren starts flashing green, which can help identify the siren from numerous devices.
- Signal strength detection
  When enabled, siren starts flashing to show the wireless signal strength between the hub at current installation site.
  - The **left indicator** flashes every 3 seconds: signal strength is good;
  - The **center indicator** flashes every 3 seconds: signal strength is medium;
  - The **right indicator** flashes every 3 seconds: signal strength is bad;
  - The **right indicator** flashes rapidly (4 times / second): no signal;
- Low battery notification

3. RBF wireless technology

Wireless signal range

- 868 MHz Siren: Up to **3,150** m in an open space with hub
- Two-way communication with hub

Frequency bands

- 868 MHz Siren: 863 ~ 870 MHz
- 915 MHz Siren: 902 ~ 928 MHz
  > *Depends on sales region.*

Wireless signal modulation

- FSK

Encrypted communication

- All the data transmitted are protected by AES-CCM encryption with a random key.

Frequency hopping (FHSS)

- To prevent radio interference and radio signal interception.

Time division multiple access (TDMA)

- With the help of clock synchronization technology, hub will slice time into different division for different RBF wireless devices. In this way, all devices will communicate with hub in a sequence.

4. Electrical Characteristics

Power Supply

- 1,700 mAh Lithium battery with Solar Panel charging

- Up to 4.2 years (Standby mode, Battery fully charged)

> *Note: when solar panel works fine, the outdoor siren can work continuously without external power charging.*

5. General

Operation Temperature

- From -10°C to +55°C (14°F to 131°F)

Operation Humidity

- From 10% to 90%

Storage Temperature

- From -20°C to 60°C (-4°F to 140°F)

Dimension(WxHxD)

- 290mm × 200mm × 58mm

Weight

- 655.5 g

6. Compatibility

- Operates with all RoomBanker Home Security Hubs, RBF repeaters.

7. Complete set

Product	Quantity
Outdoor Siren	× 1
Mounting bracket	× 1
Screw package	× 1
Quick Start Guide	× 1

8. Additional information

Available models

- RBAD-SO1-868
- RBAD-SO1-915

Certifications

- CE, CB
- FCC
- ICASA
- RCM
- NOM
- Anatel

Warranty

- Replacement and repair within 24 months of the date of sale.

FCC Warnning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.