Wireless Repeater

Quick Start Guide

V1.0.2

1.2.51.32.13108-001

**Overview**

This indoor wireless repeater is used with alarm gateway device, such as wireless alarm hub and video alarm control panel, in order to extend the distance between detectors/accessories and alarm gateway. For example, due to long distance between a detector or siren and alarm gateway device (hub or panel), alarm info fails to be uploaded to alarm gateway. Therefore, add a wireless repeater between them, and thus extend the distance.

Symbol Definition

The following symbols may appear in this document. And their meanings are as follows:

Symbol	Note
⚠ DANGER	It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ WARNING	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
⚠ CAUTION	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
⚡ ESD	It means electrostatic–sensitive device.
⚡ ELECTRICITY	It means high–voltage danger.
☢ LASER BEAM	It means intensive laser radiation.
☞ TIPS	It means that it can help you to solve some problems or save your time.
📖 NOTE	It means the additional information, which is to emphasize or supplement.

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

- Please don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don't install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well–ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

1 Product Feature

- Communication frequency is 433/868MHz; normal transmitted power is 10dBm.
- Transmission distance reaches 150 meters in the open air.
- DC5V USB power supply.
- 1–level cascade connections.

2 Device Appearance

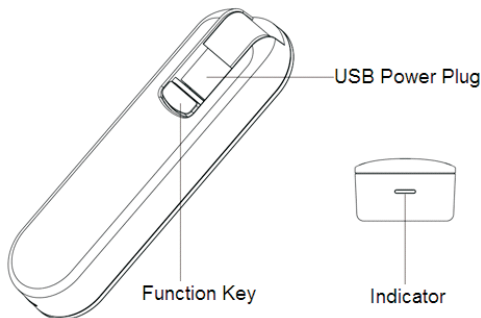Device appearance is shown in Figure 2–1 and described in Table 2–1 and Table 2–2.

USB Power Plug

Function Key

Indicator

Figure 2-1

No.	Description
USB power plug	USB power supply.
Function key	● Press shortly, pop up USB power interface or enable manual pairing. ● Press it quickly for 5 times, to clear configurations.

Table 2-1

Description of indicator is as follows:

Indicator	Status
Blue flashes quickly for 5 times	Repeater power-on
Blue flashes for 3 seconds	Detectors connecting with repeater automatically
Red turns on and then flashes quickly	Repeater paring with alarm gateway
Green flashes once every 2 seconds	Repeater normal work

Table 2-2

3 Get Started

Step 1 Enable pairing mode of alarm gateway (hub or panel). Please refer to the user's manual for details.
Step 2 Press the function key shortly, pop up USB power interface, and insert the wireless repeater into DC5V USB power adapter. Red indicator is normally on and then flashes quickly, representing that it enters pairing mode and starts pairing.
● Pair successfully when the red indicator turns off after quick flashing, and the green indicator flashes every 2 seconds.
● Fail to pair if red indicator flashes slowly for 3 times. Power on repeater again or short press the function key until it is paired successfully.
Step 3 Pair detectors/accessories into alarm gateway successfully. For paring operation, please refer to the user's manual.
Step 4 Move detectors/accessories and repeaters to the installation position. Detectors or accessories will search and connect with the repeater automatically. If the position is appropriate, trigger the detector, alarm gateway will alarm.

📖 NOTE

If the repeater has already paired with other alarm gateways, to pair with a new gateway, please first press the function key quickly for 5 times to clear previous configuration info.

4 Product Installation

Points for Attention

● Engineering installation and debugging shall be implemented by a professional team. In case of device faults, please don't dismantle or repair it by yourself. Please contact after-sales department.
● Try not to install it in a place with excessively high temperature.
● Try not to install it in a place with large metal products around.

Preparation

● Ensure that wireless repeater and the alarm gateway (alarm hub or panel) have been paired successfully.
● Ensure that detectors/accessories have been paired successfully with alarm gateway and armed.
● Put the wireless repeater at the installation position, trigger detectors, check whether the alarm gateway alarms, and thus confirm whether this installation position is appropriate or not.

Installation Process

Step 1 Press the function key shortly, and pop up USB power plug.
Step 2 According to present environmental requirement, adjust USB power interface to an appropriate position.
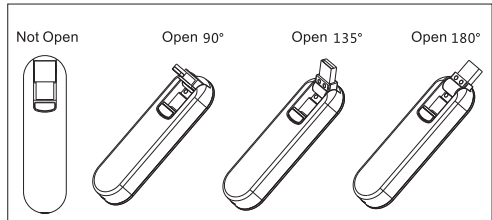The interface can be adjusted to have 90°, 135° or 180° angles.

Not Open   Open 90°   Open 135°   Open 180°

Figure 4-1

Step 3 Insert the repeater into power adapter; power on.

Appendix 1 Technical Parameters

Parameter	Specification
Carrier frequency	433/868MHz
Transmitted power	10dBm
Transmission distance	150m (in the open air)
Repeater cascade	1-level cascade connections
Standby power consumption	≤0.5A
Working temperature and humidity	−10℃～50℃，＜95%
Dimension	105mm × 29mm × 18mm
Weight	0.05kg