Outdoor Wireless Acousto-optic Siren

ST-6107W

* This product is a networking accessory that needs to be used with the company's gateway

Outdoor Wireless Acousto-optic Siren User's Manual

1. Brief Introduction

The outdoor wireless acousto-optic siren adopts 8 bit MCU technology, built-in 48 LED lights, 2 wired zone Interfaces, 2 120dB buzzers and 1 built-in 12V/1.2A Lead-acid battery. The outdoor wireless acousto-optic siren not only can connect with the alarm host via wireless transmission, but also can be used as an alarm host and a repeater. It is widely used in banks, shops and villas etc.

When the outdoor wireless acousto-optic siren works with wireless alarm host by wireless transmission, alarm host can input the outdoor wireless acousto-optic siren address, or directly learning with the outdoor wireless acousto-optic siren. The outdoor wireless acousto-optic siren's tamper alarm, AC information, battery voltage information are all transmitted to the alarm host via wireless signal. Then the alarm host notifies the user about the alarm information via SMS, center and voice.The outdoor wireless acousto-optic siren also can indicate alarm host arm / disarm status.
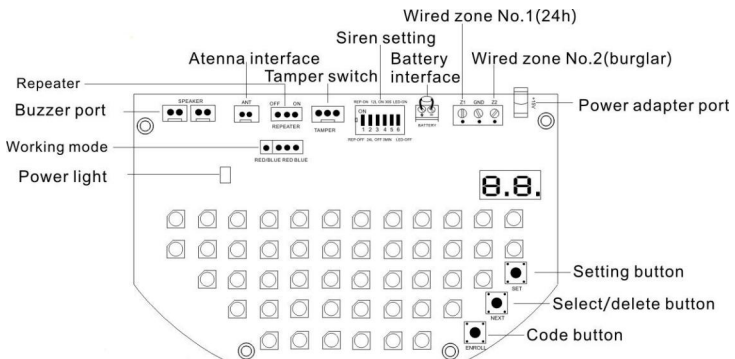
Users can buy the relative remote controls and detectors according to their demand when the outdoor wireless acousto-optic siren is used as the alarm host. It can connect with these wireless accessories and become a powerful independent alarm system.

The outdoor wireless acousto-optic siren can also be used as a repeater, which can increase the wireless launch distance effectively.

2. Function Features

◆ Used as a repeater, it can transmit 32 wireless accessories.
◆ 3 colors of indicator lights flashing modes. (Red/ Blue/ Red+Blue)
◆ Design for preventing the siren being removed maliciously .
◆ Acousto-optic notice when operating Arm /Disarm.
◆ Status reports including the alarm from siren itself, tamper alarm, alternating current information and battery voltage.
◆ Support 8 remote controls, 32 detectors.
◆ Built-in 2 NC type wired zone interfaces. Zone No.1 for 24 hours defend and zone No.2 for burglar defend.
◆ Two optional ways to pair: wireless pair and inputting siren numbers to pair.
◆ Optional acousto-optic alarm notice when A/C is off.
◆ Optional light alarm notice on standby status.
◆ 120dB alarm sound, flashing lights, a strong deterrent.
◆ Built-in 12V/1.2A Lead-acid battery, up to 24 hours of sand-by time
◆ Built-in balance device, convenient to install in horizontal direction.

3. Interface definition

3.1 Siren Setting

① Report transfer

REP_ON: Reports of the wireless siren will be transferred to the panel.

REP_OFF: Reports of the wireless siren will not be transferred to the panel.

② LED light

12L: 12 LED lights flashing   24L: 24 LED lights flashing

③ AC power failure alarming

ON: Alarm sound with light prompt when AC is off   OFF: No alarm notice when AC is off

④ Types of alarm voice

1T: Only 1 voice when alarming   6T: 6 kinds of voice when alarming

⑤ Alarm time

30S: 30 seconds of alarm sound   3MIN: 3 minutes of alarm sound

⑥ Light notice when standby status

LED_ON: Light alarm notice when siren is in standby status

LED_OFF: No light hint when the siren is in standby status

3.2 Power light

Long ON: Alternating Current is normal   Light OFF: Battery-Powered

3.3 Working Mode

Blue: The indicator light is blue   Red: The indicator light is red

RED/BLUE:Wireless siren indicate light is red and blue

3.4 Status Lights

① Blue

Light OFF: The outdoor wireless acousto-optic siren/ the alarm host is at disarm or unknown status.

Flashes once every three seconds: The outdoor wireless acousto-optic siren/ the alarm host is at arm status.

Fast Flashing: The outdoor wireless acousto-optic siren/ the alarm host is alarming.

② Red

Light OFF: The outdoor wireless acousto-optic siren/ the alarm host is at disarm or unknown status.

Flashes once every three seconds: The outdoor wireless acousto-optic siren/ the alarm host is at arm status.

Fast Flashing: The outdoor wireless acousto-optic siren/ the alarm host is alarming.

③ Red+Blue

Blue lights fast flashes 4 times every second: The outdoor wireless acousto-optic siren/ the alarm host is at disarm or unknown status.

Red lights fast flashes 4 times every second: The outdoor wireless acousto-optic siren/ the alarm host is at arm status.

Alternately flashes blue and red lights: The outdoor wireless acousto-optic siren/ the alarm host is alarming.

3.5 Transmitting Mode

ON: Turn on transmitting mode   OFF: Turn off transmitting mode

Note: Checking AC power outages need to take 20 seconds of checking time.

4. Operation Instruction

4.1.Remote Control

4.1.1. Enroll Remote Control

Step1: Under the normal status without alarm event, long press "SET" button with 3s until heard a short "Di" and address "E1" will be shown in LED, then user can start to enroll remote control. The current address in LED refers to the current remote control to be enrolled.

Step2: If user wants to enroll the next address"E2" please press "NEXT" button to the next one, the same as E3,E4...

Attention: If the current address in LED is flashing, it means the current remote control has not been enrolled and user can press any button of remote control to enroll. If enrollment succeeded, the siren will prompt a short "Di", meanwhile address in LED will turn flashing into long bright, it means remote control enrollment succeed. If the current address in LED is long bright, it means the current address has been already enrolled. User should delete previous one to re-enrolling. If heard 1 long "Di", it means the remote control has already been enrolled.

4.1.2. Delete Remote Control

In remote control enrolling status, press "NEXT" button with 3s to delete the existing remote control. After user heard 2 short "Di" from siren and the indicator turned long bright into flashing, deletion is successful.

4.1.3. Exit Remote Control Enrollment

In remote control enrolling status, short press "SET" button twice to exit.

4.2.Detector

4.2.1.Enroll Detector

Step1: Under remote control enrolling status, short press "SET" button once, then siren enters the detector enrollment. The address"01"in LED refers to the current zone to be enrolled.

Step2: If user wants to enroll the next address"02", please short press "NEXT" button to the 2nd zone, the same as 03,04...

Attention: If the current address is flashing, it means the current detector has not yet been enrolled and user can enable detector to transmit alarm signal to be enrolled. If enrollment succeeded, siren will prompt a short "Di", meanwhile address in LED will turn flashing into long bright, it means successful enrollment of detector. If the current address in LED is long bright, it means the current address has been already enrolled. User should delete previous one before re-enrolling. If heard 1 long "Di", it means the detector has already been enrolled.

4.2.2.Delete Detector

In detector enrolling status, press "NEXT" button with 3s to delete the existing detector. After user heard 2 short "Di" and the indicator turned long bright into flashing, deletion is successful.

4.2.3.Exit Detector Enrollment

In detector enrolling status, short press "SET" button once to exit.

4.3.Arm/disarm prompt mode setting

Under the detector enrollment mode, short press the "SET" key once, the siren enters the arm/disarm prompt setting(the digital tube display shows its mode), then short press the "NEXT" key to enter the next mode,

if the display showed "0",means indicating "No light prompt"but with "Sound prompt";

display 1, indicating "Light prompt", with "Sound prompt";

display 2, indicating "Light prompt", "No sound prompt";

display 3, indicating "No light prompt", "No sound prompt";

Exit "Arm/disarm prompt mode"

In the setting state of the arm/disarm prompt mode, short press the "SET" key once to exit the detector code matching state.

4.4.Enroll Siren

Under siren standby status, short press "ENROLL" button once, siren will emit wireless enrolled signal to host, then alarm host enter siren enrolled status, when user hear a short "DI" from alarm host, it means siren enrollment succeed.

4.5. Repeater

4.5.1 Enroll Repeater

Step1: Long pressing "SET" and "NEXT" buttons for 3 seconds at the same time, after hearing a short "Di", the siren enters the detector enrollment. The address "01" in LED refers to the current detector which need be transmitted is enrolled.

Step2: If user wants to enroll the next address "02", please short press "NEXT" button to the 2nd detector, the same as 03, 04...

Attention: If the current address is flashing, it means the current detector has not yet been enrolled and user can trigger the detector. If enrollment succeeded, siren will prompt a short "Di", meanwhile address in LED will turn flashing into long bright, it means successful enrollment of detector. If the current address in LED is long bright, it means the current address has been already enrolled. User should delete previous one before re-enrolling. If heard 1 long "Di", it means the detector has already been enrolled.

4.5.2.Delete Repeater

In repeater enrolling status, press "NEXT" button with 3s to delete the existing repeater. After user heard 2 short "Di" and the indicator turned long bright into flashing, deletion is successful.

4.5.3.Exit Repeater Enrollment

In repeater enrolling status, short press "SET" button once to exit.

4.6.Copy the siren address

4.6.1. Copy the siren address

Press "ENROLL" and "NEXT" button for 3s, until one short "DI". Which means enter the copy siren address status, and the digital tube shows "b1". If "b1" flashing, it means the factory siren address. Then long press "ENROLL"button,at the same time short press the "ENROLL" button of the siren you want to copy. If copy successfully the siren will, prompt one short "DI", and "b1" will stop flashing into long bright, that the transponder replication is successful. IF "b1" long bright, indicating the current address of the siren has been copied, the user have to delete first and then do the copy again.

4.6.2 Delete copied siren address

At the copy siren address status, long press "NEXT" button for 3s, to clear the copied siren address and reset to, factory address. Two "Di" will prompt and "b1" indicator change from long bright to flash, indicating delete successfully.

4.6.3. Exit the copy siren address

At the copy siren status, short press "SET" one time, will exit the copy status.

4.7. Recovery Factory Default

After the outdoor wireless acousto-optic siren power on, long press "SET" and "ENROLL" , until hear 2 short "DI" , It means that the siren has been back to factory default.

5. Technical parameter

Size specification: 320mm*213mm *94mm * (length * width *thickness)

Working voltage:　DC 15V

Battery: 12V/1.2Ah

Standby current: <35mA/15V

Alarm current: < 400mA/15V

Siren alarm sound: >120dB

Wireless receiving frequency:433.92MHz

Use environment: working temperature -20℃~ +55℃ relative humidity 40 ~ 80%

Wireless receiving frequency:433.92MHz

Wireless transmitting distance:≥ 450 Meter (open area)

Wireless receiving distance:≥ 450 Meter (open area)