



NBS swimming pool detector

USER MANUAL

shenzhen Meian Technology Co .Ltd

Preface

Thank you for using Focus intelligent infrared security system NBS series product, wish it will bring convenience for you.

NBS series is a type of intelligent intrusion alarm detector which adopts the most advanced international infrared transmitting and wireless digital controlling technology. The detector adopts CPU micro-process digital and intelligent controlling technology, with beams designed reasonable, in-built coaxial aspherical lens and imported transfer pipe. And the technics is excellent, also has best capability of anti-interference, can reduce the affect by hurricane and storm, and be suitable for many kinds of weather. Our products also has the function of vandal-proof and cut-proof, it can rotate with 360° to adjust precisely and quickly; the function of anti strong light enables less false alarm.

“NBS” has professional and exquisite outlook, enables reducing the affection caused by wind.

The series products have obtained many professional and security certificates, so they are credible and multi-function security products.

To operate our products conveniently, we suggest that you read this manual carefully before installation, then it will supply with you some valuable advices. If you need more help, please contact with us by technical support number: 800- 830- 9795.

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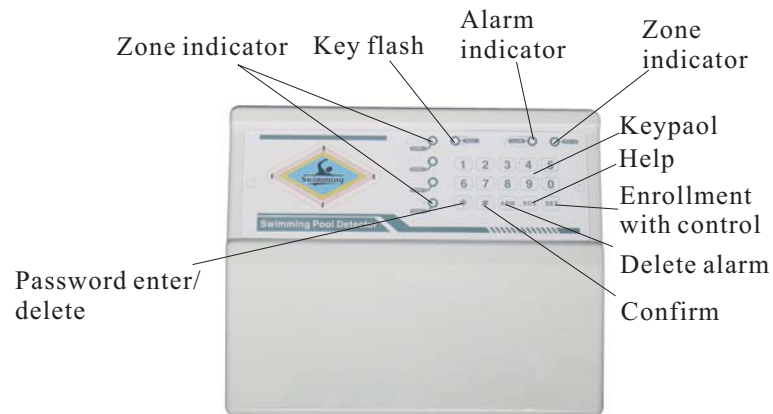
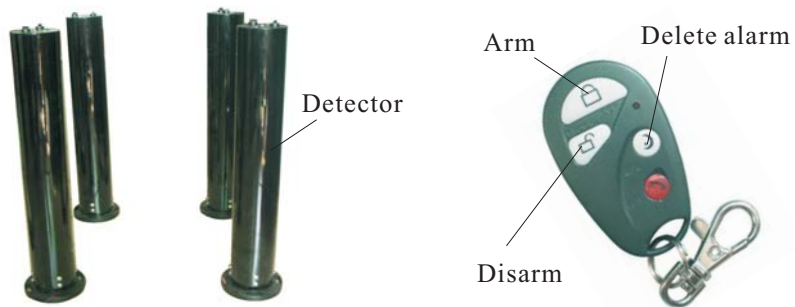
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Products list

Please check whether the products compatible with the list as follow, if there is some accessory loss or damaged, please contact with us.

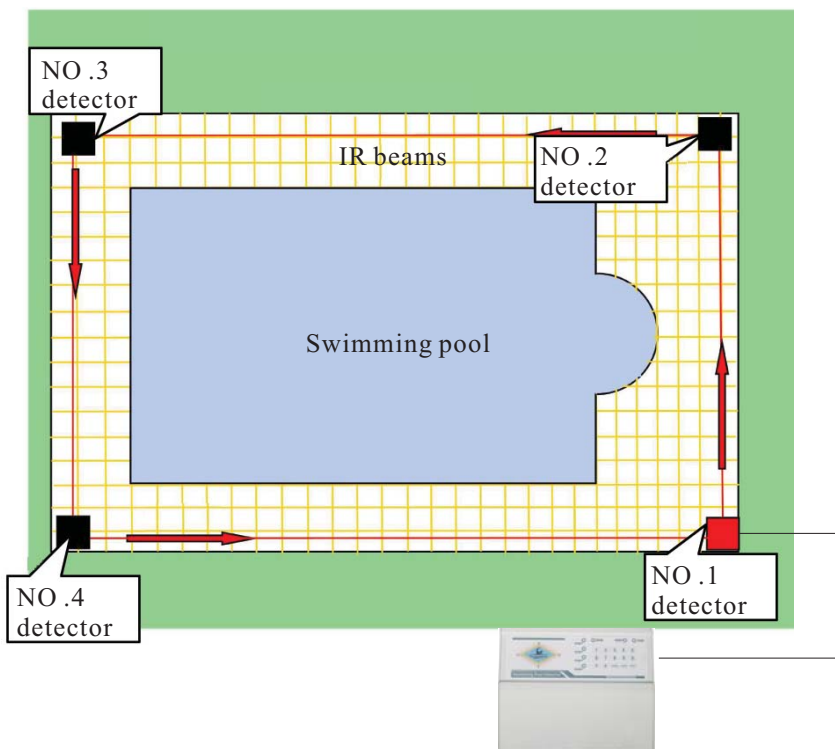
- ◆ One NBS control panel
- ◆ Four NBS detectors
- ◆ One wireless siren
- ◆ Three remote controllers RB-203R
- ◆ One manual
- ◆ Sixteen screws for base
- ◆ Two antennas

1. Main parts of system



2. Detector installation

2.1 Place the detector as above



1. Place the detector as above

2. Use screw to fix the detector

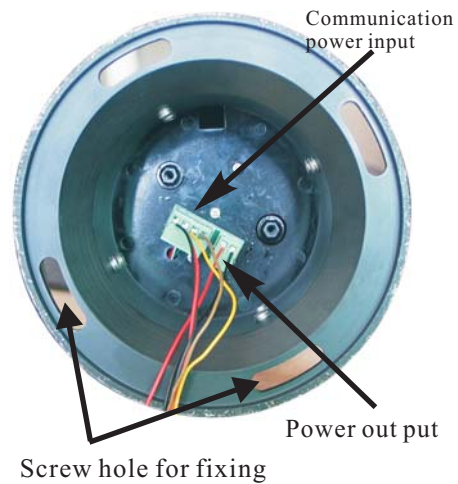
3. Notes:

- There should not be obstacle between the detectors, other or the indicator will keep on
- The installation place should be flat
- The installation distance should be less than 60m

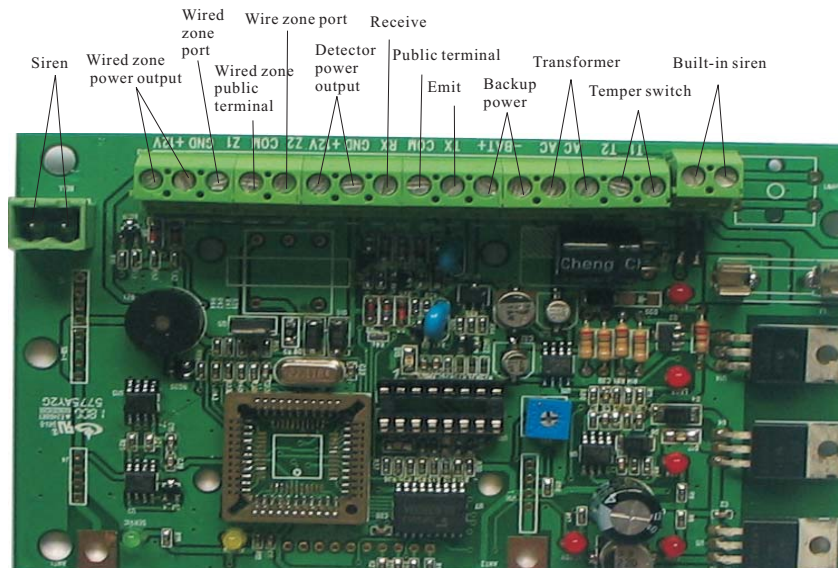
2.2 Wiring

2.2.1 There are six terminals in every detector base, the main detector (No.1 detector) base and wiring method as right diagram.

2.2.2 Lead the power output line of No.1 detector to the relative ports of No.2 detector, and so on



2.2.3 The wiring method as following diagram



2.2.4 Connect the siren, speaker, transformer output terminal, backup power well. And connect the wiring terminal COM, RX to the A, B terminal on No.1 detector.

2.2.5 Install the wireless siren in a suitable position 30m away from control panel with 12V power supply.

2.3 Adjusting detector

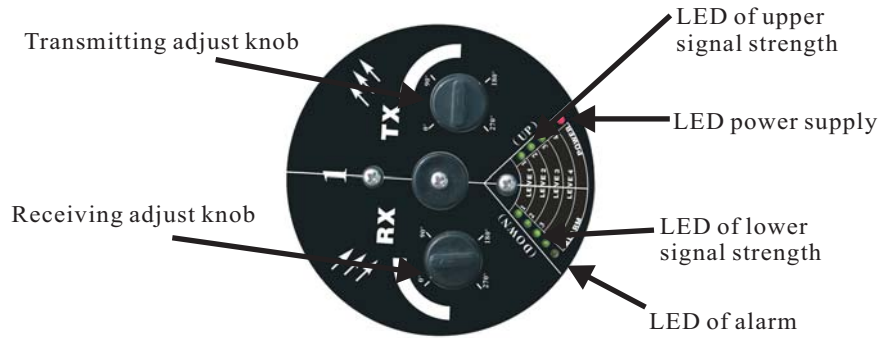


2.3.1 Remove the upper cover (as right picture), then power it up.



2.3.2 Adjust the emitting and receiving switches to make all the beams enrolled. In the process, the arrowhead should be towards out, it means that No.1 detector emitting switch arrowhead should be level with the No.2 detector receiving switch arrowhead.

2.3.3 In the process of adjustment, if the signal indicator above 5 level and be off after 2 sec's waiting, it means that the signal is enrolled, otherwise, you need to adjust continuously until the light off. Use the same way to adjust the other switches.



Top sketch

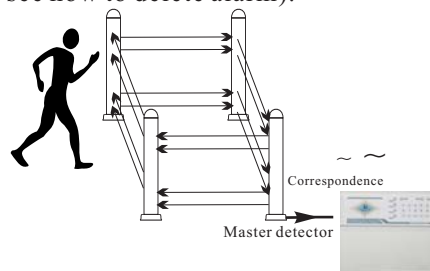
右表为信号强度级别判定

Notes: Before the enrollment, if only the power indicator and alarm light be on, it means that the detector's emitting signal need to adjust. In the process, the indicator will be on and off swiftly. No.1 detector will alarm once any one not enrolled, so we suggest that enroll No.2, No.3 and No.4 firstly.

Signal strength indication	Grade
on on on on	8
flash on on on	7
off on on on	6
off flash on on	5
off off on on	4
off off flash on	3
off off off on	2
off off off flash	1
off off off off	0

2.3.4 In the formal version, the signal strength indicator will be off after 5 min on.

2.3.5 Walk test for detector. Check whether the control panel will alarm by walk normally through the infrared zone between two detectors every minutes (Refer to 2.8 to see how to delete alarm).



2.3.6 Return the upper cover after adjustment.

Note: The backup power can last for a period, but it needs stable power supply for long time.


2.4 Enrollment

2.4.1 Wireless siren enrollment and delete

- Delete wireless siren: remove the cover and power it up, in the meantime, press the “CLR” and “SAVE” on the PCB up until the red light on, then the siren enrolled successfully. After deleting siren, it will sound if there is connection problem.
- Enroll siren: remove the cover and power it up, in the mean time, press the “SAVE” and “SOS” or “1234#” to arm, if siren not sounds, it means that enrollment successful. Return upper cover.

2.4.2 Enroll remote controller There are 3 remote controllers in all, which has been enrolled in factory. If you need to reenroll it, please refer the following steps:


Mate code setting



Enter mate code mode bu press "SET"

LED亮

1. enter mate code mode by pressing "SET", one LED of control panel will light ,press any key of the remote controller, the LED off, that is to say mate code successfully



Continuously press "SET"

The relevant LED light

2. continuously press "SET",LED will light one by one from top to bottom. Repent form step, set other remote controllers


Notes:

1. There are 3 remote controllers in all compatible with control panel, each of which can be matched with the side of rhombic LED. If more than two controllers enrolled to the same side of the LED, only the last enrolled controller acts efficiently. Others need to enroll once again.
2. In enrollment mode, if you'd like to set new controller, please press "set", turn on the unenrolled side of LED, then trigger any key on the controller to enroll. If click any key then the LED off, it means successful. You should trigger controller within 3 secs from LED on.
- 3.If you press "set" by mistake and not need to enroll, do not press any key on controller, then it will return back within 3 sec.
- 4.If any of the enrolled controller doesn't work, you'd better re-enroll all the controller.

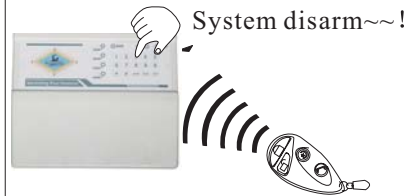
2.5 Arm and disarm


Arm:



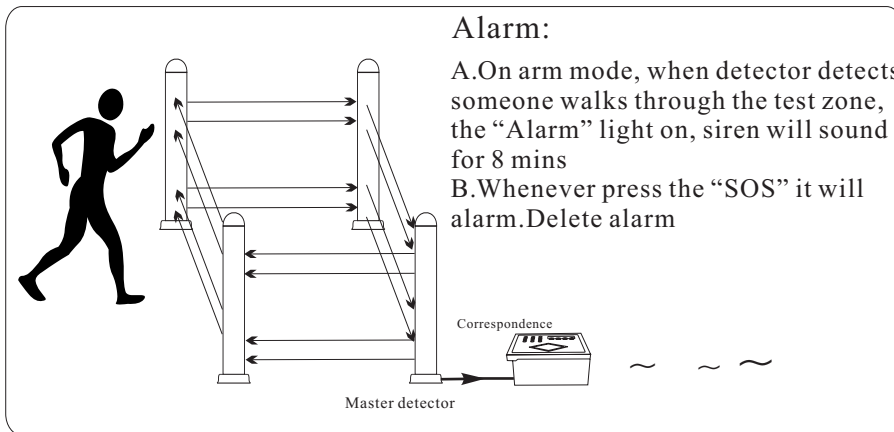
The system has four arm methods:
 A.Auto arm when the system starts
 B.Enter password “1234” then press “#” to confirm
 C.Press the “” to arm
 D.Auto arm after 30 mins disarm
 The “service” on and there is audible hint after system armed to show successful.

Disarm method:



A: enter password “5678” and press # to confirm
 B: press “” to disarm
 The “service” off and there is audible indication to show successful. In the meantime, the siren will sound two “beep”. On disarm mode, the detector can detect alarm signal, but the main control panel will not alarm.

2.6 Alarm and delete alarm



1. delete alarm but not disarm

A Press the "ARM"

B Press the "☾" on controller to delete alarm

System disarm~~!

2. delete alarm and disarm

A enter password "5678" and press # to confirm

B press "☐" on controller to disarm

The "Alarm" off and siren off after disarm

2.7 connection trouble test

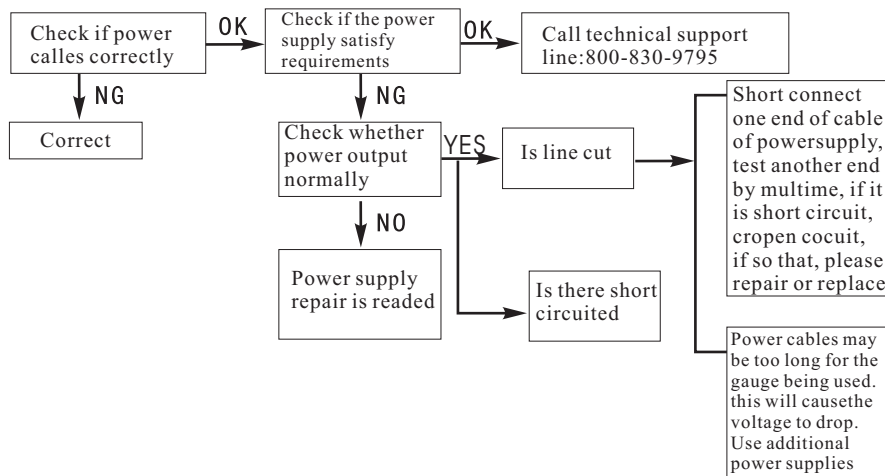
On arm mode, if there is connection trouble occur, there will be audible hint "system trouble", in the meantime, the siren will sound until the it is normal; on disarm mode, it can not inspect malfunction

2.8 low power indication

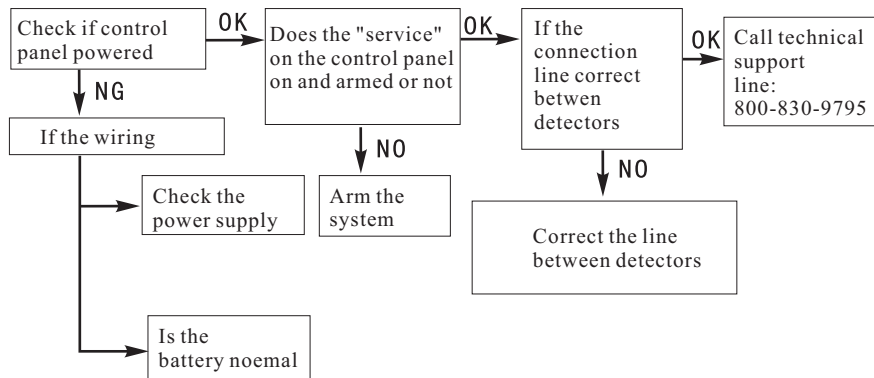
When the battery voltage is lower than need, the system will sound "battery low power" every 5 mins.

3.trouble shooting check sheet for NBS

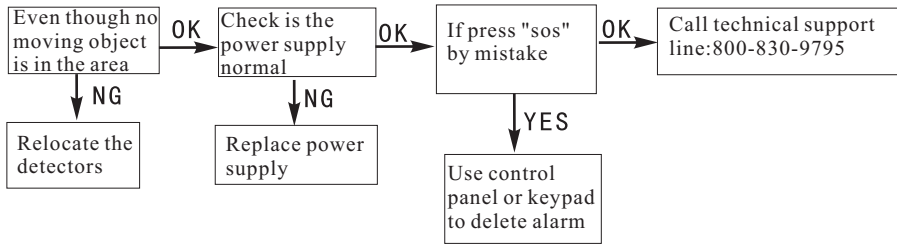
3.1 LED doesn't light



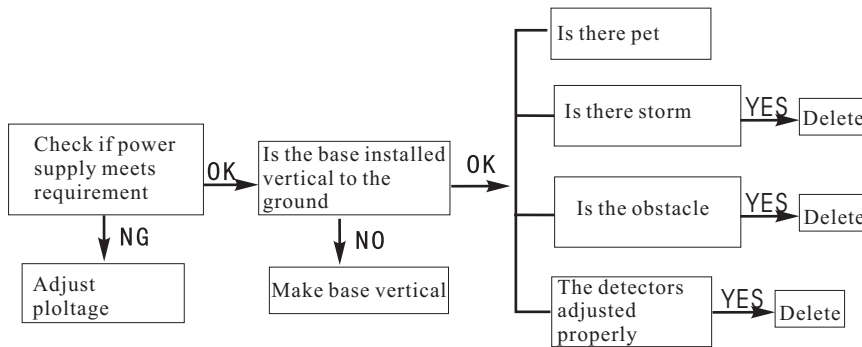
3.2 No alarm output while cover the eletection area



3.3 Makes alarms



3.4 LED doesn't light while the detector power up



4. Technical specification

Model	NBS swimming pool detector
Max .distance	100m
NO .of beams	4beams blocked simnltaneous
Response time	200 m secretary
NO . Of wired zone	2
Alarm mode	Wireless siren, wired siren
Input	AC 220V ± 10% 50/60Hz
Output	AC 220V static 60mA
Cunnent of control panel	≤ 1A
Detection mode	Infrared pigital pulse
Operaying temperation	-35°C - +60°C
Operating numidity	5% - 95%

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