Home security alarm system GTWAE7-4D
Instruction

Brief introduction

GTWAE7-4D *(LX-HS06)* is a set of entirely new English home security alarm system, it uses advanced MCU control and SMD technology. it innovate multiple trade new technique. It has integration high, reliability good, technology advanced, function mightiness and operation simple etc. feature. It used abroad in bank, organ, enterprise, army, villa Dom, and small zone housing network alarm.

Technical parameter

Main controller:
Power:12VDC(power adapter convert)
Standby power: DC12V(chargeable battery)
Working frequency: 433MHz
Remote control distance:≥30m
Static current: 150mA
Battery group waiting time: 90min
Factory setting:

System password:000000	System delay:0sec
User password: 1234	Alert: 300sec
Code: 0000	Dial times: 3
Report: no report	Vibrant ring times: 8

Sensor emitter LX-AL8:

Working power: DC9V(cascading battery)	Static current: 30μA
Sense distance: 12m	Sense angle:110°
Installing height:2m	

Remote controller: Working power: DC12V (alkaline battery)
Door magnetism (LX-DM1): Working power: DC12V (alkaline battery)
Siren: power DC12V, current: <800mA

Basis configuration

controller（DC12V storage battery group include）	1pcs
Power adapter (Input 230VAC,output 12VDC,current 1000mA)	1pcs
4-key remote controller（battery include）	2pcs
single-key remote controller（battery include）	1pcs
Sensor emitterLX-AL8（battery include）	1pcs
Door magnetismLX-DM1（battery include）	2pcs
Siren	1pcs
Telephone line	1pcs

Option unit

Smoke alarm **GTWAE7-4D** (LX98-RF、LX728-RF) 、wired sensor（glass break LX-AL5、PIR LX-AL6, PIR &glass break LX-AL7, double detectors PIR LX-AL11）、wired or wireless PIR LX-AL9!

Function

- **4+8 arm zone**
  LX-HS06 has 4 wired arm zones and 8 wireless arm zones.
- **English display**
  Its operation and setting all be displayed by English and operation is more convenient and shortcut.
- **Function mightiness**
  Possessing multiple programmable function setting, operation and setting is simple, standby power for 24 hours.
- **One key operation**
  You need only press [AWAY] or [HOME] key to set arm/stay, you can also use remote controller to arm/disarm. Under any state disarming need only pressing user password.
- **Numeral speech**
  Inner set numeral speech ware, and has 8 section numeral speeches. During operation, it prompt:" System arm", "system disarm"; during alarming, it can identify detector automatically and transmit alarm info to receiving alarm telephone, like " fire alarm", " gas alarm", " security alarm", "help alarm".
- **Password popedom**
  It has [system password] and [user password], the two passwords can be set after entering alarm system but respective function popedom is different, that is convenient for manager and operator to control alarm system religiously.

■ **Long-distance remote control**

The alarm can be controlled by keypad and remote controller, by telephone line, it can be long-distance controlled, and fulfill arm/disarm/monitor hearing function.

■ **Intelligent study.**

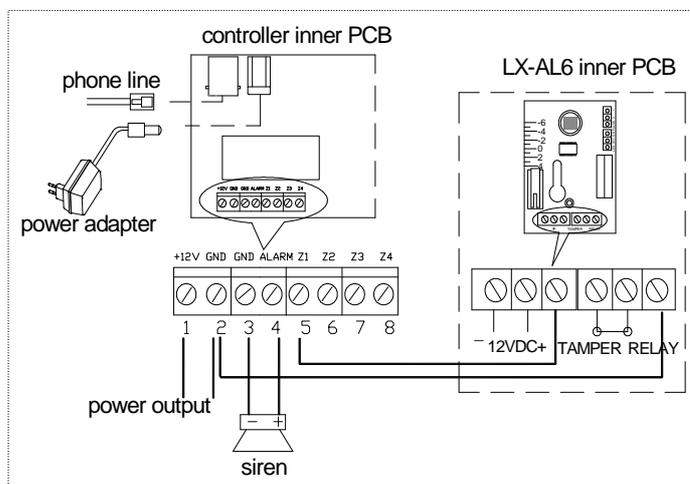Wireless detector study is very simple. The study time need no 1sec.

Connection line

1. connect phone line: connect controller to workable phone path. NOTE: if not connect phone line, controller will give"path trouble"prompt.

2. Connect power adapter: the adapter requires: input 230VAC, output 12VDC, and current 1000mA. During AC power is on, standby battery will be charged automatically. When AC power cut off, the product works by standby battery entirely.

3. conncetion terminal:

· power output terminal[terminal 1（+）、2（-）]
  output DC12V power, can power supply for LX-AL6.
· siren terminal[terminal 3（-）、4（+）]
  siren power:DC12V, current:800mA
· detector signal terminal[terminal5（6，7，8）、GND(2,3)]

controller has 4 wired arm zone:［5－GND］is 01 zone；［6－GND］is02 zone；［7－GND］is 03 zone；［8－GND］is 04 zone.
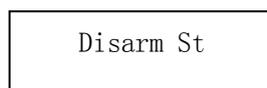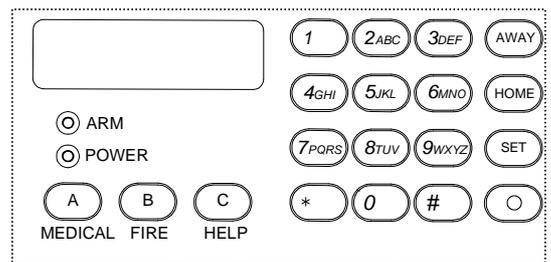

Function setting

·**enter programming**

The controller's system password is [000000], all settings and modifying of the controller must be done via system password. The user password is [1234].
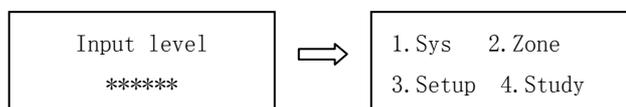
Attention: the system password is the highest grade; only via it you can modify the user password and all specification of the controller. So when you modify the system password, you must remember the new password firmly.

After connection line right, switch on power, the POWER led light; when the controller is in arm state or guard st, the ARM led light. LCD display the controller's state("Arm St" or "Guard St" or "Disarm St")，that indicate it is normal.
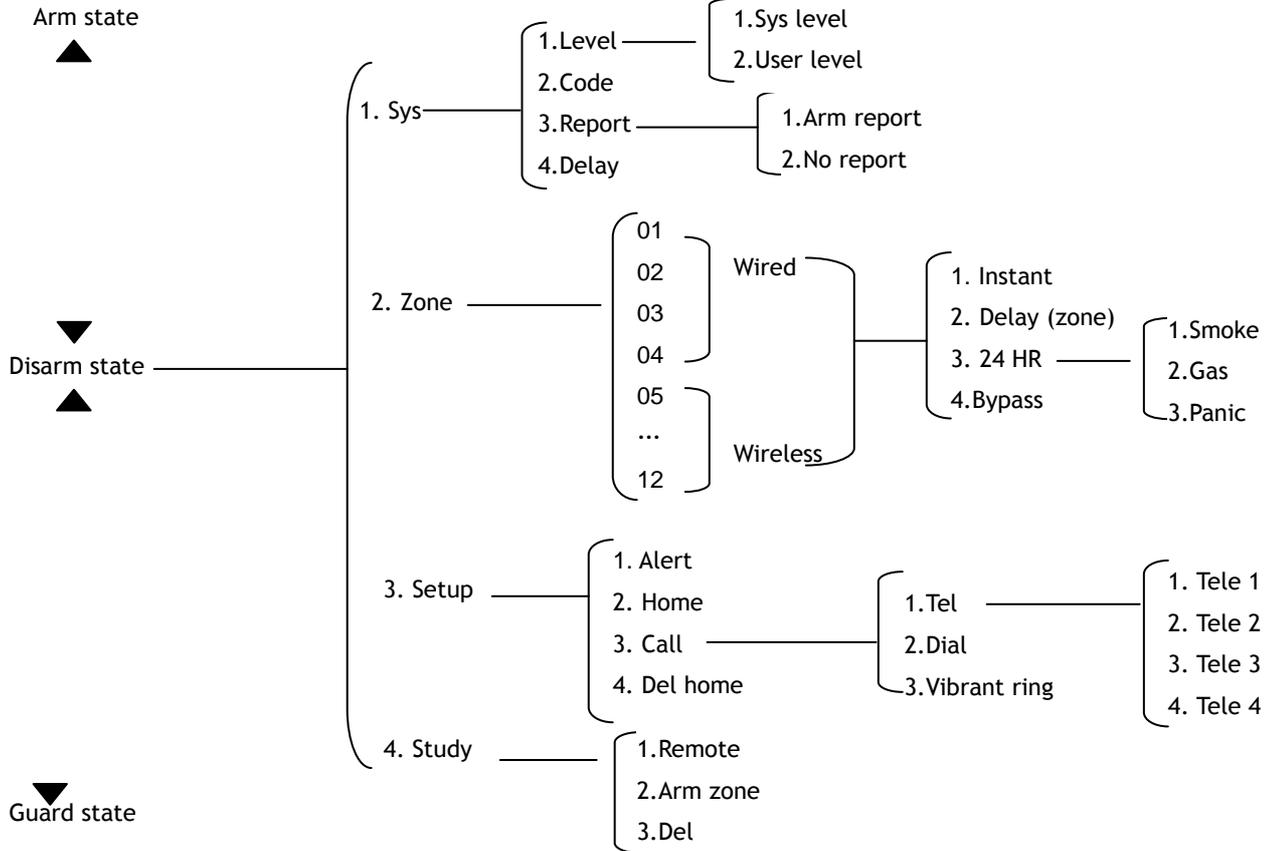
Attention: when LCD display "Arm St" or "Guard St", if you need to program, you need to input user password to disarm controller, when LCD display "Disarm St", you can start to program.

```
Disarm St
```

When controller is in disarm state (disarm st), press the SET key on keypad, LCD display <input level> and remind you input the system password, press # key to enter the main menu.
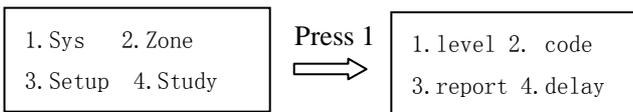
```
Input level          1.Sys    2.Zone
******        ⟹    3.Setup  4.Study
```

Arm state
▲

```
                                                ┌ 1.Sys level
                              ┌ 1.Level ────────┤
                              │ 2.Code          └ 2.User level
                  ┌ 1. Sys ───┤                 ┌ 1.Arm report
                  │           │ 3.Report ───────┤
                  │           └ 4.Delay          └ 2.No report
                  │
                  │           ┌ 01 ┐                    ┌ 1. Instant
                  │           │ 02 ├ Wired ┐            │ 2. Delay (zone)          ┌ 1.Smoke
                  │ 2. Zone ──┤ 03 │       ├────────────┤ 3. 24 HR ────────────────┤ 2.Gas
                  │           │ 04 ┘       │            └ 4.Bypass                 └ 3.Panic
Disarm state ─────┤           │ 05 ┐       │
                  │           │ ... ├ Wireless┘
▲                 │           └ 12 ┘
                  │
                  │           ┌ 1. Alert
                  │           │ 2. Home                ┌ 1.Tel ──────────┐ ┌ 1. Tele 1
                  │ 3. Setup ─┤ 3. Call ───────────────┤ 2.Dial          │ │ 2. Tele 2
                  │           │ 4. Del home            └ 3.Vibrant ring  └─┤ 3. Tele 3
                  │                                                        └ 4. Tele 4
                  │                               ┌ 1.Remote
                  └ 4. Study ─────────────────────┤ 2.Arm zone
                                                  └ 3.Del
```

▼
Guard state

NOTE: when programming, the [*] key is for returning to previous menu, and [#] key is for confirming.

1.Sys 2.Zone
3.Setup 4.Study

Press 1 ⟹

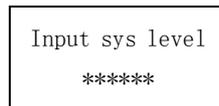| 1.level 2. code |
|---|
| 3.report 4.delay |

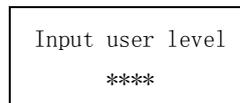─Password modifying 1. level
1> modify system password<sys level>

    enter menu 1.level→1.sys level→LCD display "input sys level", input 6-bit password and press # key to confirm. The system save only the last password, please remember new password firmly!

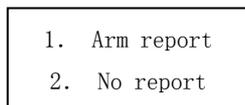| Input sys level |
|---|
| ****** |

2> modify user password<user level>

    enter menu 1.level→2. user level→LCD display "input user level", input 4-bit password and press # key to confirm. The system save only the last password, please remember new password firmly!

Input user level
****

─code setting<center network code> 2. code no the setting temporarily.
─report setting3.report
Enter menu 3. report→LCD display:

1.   Arm report
2.   No report

 Selecting 1 is report to center, selecting 2 is no report.

Attention: when need saving telephone expense or the alarm needn't be network, you can not set it.

─delay <system delay> 4.delay
Enter menu 4. relay→LCD display:

```
       Input delay
           **
```

After inputting press # key to confirm.** is delay time for away home when arming, it can set to 00~99sec.
 • *arm zone setting 2.zone*

```
1.Sys    2.Zone
3.Setup  4.Study
```
Press 2 ⇒
```
2.Zone
```

Enter menu 2. zone→LCD display:

```
     Input arm zone:
            **
```

** is 01~12 arm zone, after inputting press # key to confirm, and then according to your need select [instant], [delay], [24 hours], [bypass] arm zone type.

```
1.instant 2.delay
3.24Hr    4.bypass
```

When select [1.instant]，after it receive signal, the controller will dial and alarm immediately, and the corresponding alarm information is "security alarm";
When select [2.delay]，after it receive signal, the controller dial and alarm after some time, and the corresponding alarm information is "security alarm";
after select[3.24Hr], according to your need select [1.smoke]，[2.gas]，[3.panic]，the corresponding alarm information are"fire alarm"，"gas alarm"，"help alarm" separately.

```
1.Smoke    2.gas
3. Panic
```

When select [4.bypass], the arm zone do not work.
 • *setting 3.setup*

```
1.Sys    2.Zone
3.Setup  4.Study
```
Press 3 ⇒
```
1.alert 2.home
3.call 4.del home
```

─siren alarm time setting1. alert
enter menu 1.alert→LCD display:
```
Set alarm time
     ***
```

After inputting press # key to confirm,*** is siren's alarm delay, can set to 000~999sec, factory set to 300sec.
─guard setting2. home
enter menu 2.home→LCD display:
```
Set arm zone NO.
       **
```

After inputting press # key to confirm,** is the arm zone NO. guarded. When host is at home, after home arm, the system will ignore the guarded detector (for example: PIR sensor). So host can move freely indoor and not arising alarming.
─telephone setting
enter menu3.call→1.tel→LCD display:

```
    1.tel 2.tel
    3.tel 4.tel
```

1 group is network center number, when no network, you can not set the number;
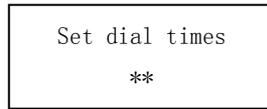2,3,4 group is speech alarm telephone number. If you need to delete the number, only set the number to [0]. select the telephone group No.(1-4),LCD display:

```
     Input tel NO.
     ************
```

*************is telephone number, it can set to 3~13 bits telephone number.
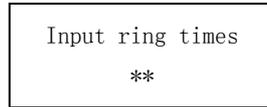
─dialing setting
enter menu3.call→2.dial→LCD display:

```
Set dial times
      **
```

press # key to confirm ,** is dial times. Factory set is 3 times; network center is not limited by it until center telephone receiving alarm.

─vibrant ring setting
enter menu3.call→3. vibrant ring →LCD display:

```
Input ring times
       **
```

press # key to confirm , ** is long-distance controlling vibrant ring times, can set to 01~99 times, factory set is 8 times.

─delete home4.del home
Delete guarded arm zone, if use the stay function next time, you need reset it.

• study 4.study

```
1.Sys    2.Zone          1.remote  2.arm zone
              Press 4
3.Setup  4.Study          3.del
```

─study wireless(1.remote, 2.arm zone)
Setting: ** + #
Attention: ** is remote controller NO. or arm zone NO., remote controller [1~4], and arm zone [05~12]. Select the remote controller NO. Or arm zone NO. needing study, and press # key to confirm, when LCD display "be studying",trigger remote controller or detector once, and then study next one.

─delete wireless(3.del)
Delete wireless remote controller or wireless detectors.

Function operation

• **arm, disarm**
Arm: press the [Away arm] key or the [AWAY] key on keypad, controller give "system arm" prompt sound and LCD displays "arm st";
Disarm: press the [Disarm] key or press user password on keypad, controller give "system disarm" prompt sound and LCD displays "disarm st";
Home Arm: press the [Home arm] or press [HOME] key on keypad, controller give "system arm" prompt sound and LCD displays "guard st".

help alarm ──
disarm ──
away arm ──
home arm ──

• **help alarm**
Remote control: press the [help alarm] key on remote controller, controller dial and then the siren alarm, controller give "help alarm" alarm info.
Keypad operation: press and hold MEDICAL/FIRE/HELP key for 3sec("DI-DIDI" prompt sound will be heard), controller dial and then the siren alarm, controller separately give" medical alarm, " fire alarm" " help alarm" alarm info.
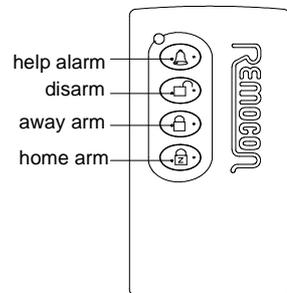
help alarm ──

• **keypad operation**
AWAY: AWAY arm key
HOME: HOME arm key
SET: programming setting,   [*]: return to the previous menu when programming.
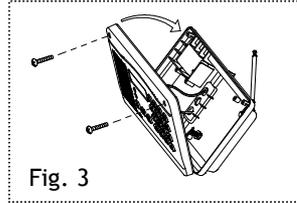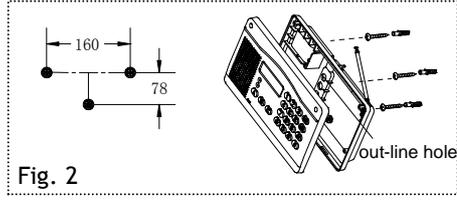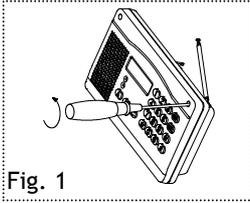[#]: Programming confirm key. (○) Key is useless.

• **speech receiving alarm**
When alarm telephone is called, pick up telephone hear alarm info. And then press "#" key to confirm and ring off, the controller stop dialing the telephone number; Otherwise it dial alarm telephone according to dial times pre-set.
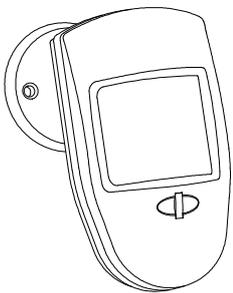
• **long-distance control**
By long-distance telephone or hand call dial the telephone connected with controller. After vibrant ring for the times preset and telephone prompt " input password, press 1 to arm, press 2 to disarm", input operation password, press # key, enter long-distance control: press 1 to arm, press 2 to disarm, press 3 to monitor hearing, press 4 to ring off.

Installing

Fig. 1

160
78
out-line hole

Fig. 2

Fig. 3

1. Untighten the screw to open the unit (see fig.1);
2. Pull in wires through the out-line hole on bottom cover and then connect wire to terminals on PCB according to connection line diagram.
3. Fixing the bottom cover on needed position(see fig.2)
4. Link up front cover and tighten the screws(see fig.3)

Sensor emitter LX-AL8

—**Jumper setting (like right figure)**
· Sense once to emit: after sensing once, the sensor emit signal
· Sense twice to emit: after sensing twice, the sensor emit signal , **This setting enhance its preventing false-alarm and preventing-pet function.**
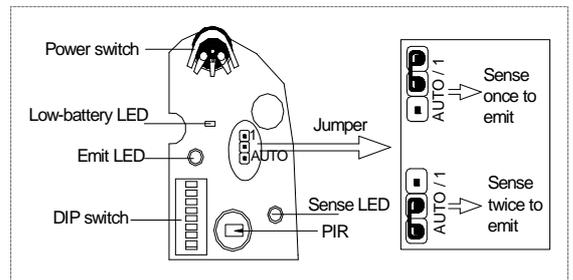*Note: the emit interval time is at least 15sec.that means: sense to make it emit, after at least 15sec sense it again, it will emit again.*
—**Test**

Power switch
Low-battery LED
Emit LED
DIP switch
Jumper
AUTO
Sense LED
PIR
AUTO / 1 → Sense once to emit
AUTO / 1 → Sense twice to emit

· press the arm key of remote controller or main controller, set the controller to arm.
· set the jumper on needed position;
· install 9V battery, and install the unit on selected position;
· turn on power switch to switch on power, after 60s the sensor enter stable working state;
· according to the studying wireless method select study arm zone(2.arm zone) to study LX-AL8;
· move along the tangent of the lens, the sense LED light and then it emit signal to controller, the emission LED light. the siren give alarm and the controller dial.

—*Attention*

· Low-battery LED: When battery energy is below 7V, the low-battery LED will flash once a second and remind you replace battery.
· Avoid installing the unit on metal base;
· Avoid installing the unit where sun shine or temperature change obviously, for example: air conditioning, heater etc.
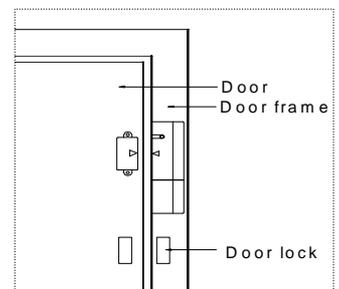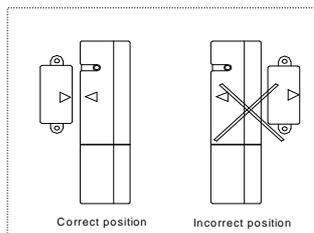
Door magnetism LX-DM1

· Install magnetism and emitter on upright position of door lock, the distance between them is 3mm~5mm and triangle on emitter aim at triangle on magnetism(like right figure);
· install DC12V battery into emitter and then close the battery lid;
· according to the studying wireless method select study arm zone(2.arm zone) to study LX-DM1;
· press the arm key of remote controller or main controller, set the controller to arm.
· Open door, the emitter is triggered and its LED light, then emit signal to controller, the siren alarm and the controller dial;
· tamper design: Under the condition that the triangle on emitter aim at triangle on magnetism, when the battery lid is removed, it will emit signal to controller.
· *Attention:*
1. Avoid installing the unit on metal base;
2. The magnetism should be on the left of the emitter (like following figure)

Door
Door frame
Door lock

Correct position   Incorrect position

Warnning: No slide all numerals of the DIP switch to ON position simultaneously when coding!