



CN2HK LIMITED

LCD Display GSM & PSTN Dual Network Alarm System (CK-AL-9951)

User Manual



Please read this manual before operating this product.

After you finish reading this manual, store it in a safe place for future reference.

ENG

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A main features

Welcome you use the LCD display GSM&PSTN alarm system, its main features as follows,

1. 99 alarm zones,99 wireless zones and 6 wired zones
2. Dual network working mode, be adapt to GSM cell network and PSTN landline telephone system at the same time
3. GSM frequency: four band 900/1800/1900/850MHz
4. LCD time and date display, automatic arming and disarming by setting time and date
5. Two way talking ability via GSM network in alarm and remote distance operation mode
6. Six autodial alarm phone numbers plus extra six SMS alarm phone numbers
7. Ten alarm messages can be recorded by user himself
8. Two relay output terminals can be operated by user to control alarm related devices
9. Learning code accessories can be easily added or deleted by user
10. Four bit password for keypad protection
11. backup built-in battery for electricity power down use
- 12 size: 120mm(W)*180mm(L)*42mm(H), main unit weight: 0.30kg

B configurations

1. Each standard main unit matched with two remote controllers, one PIR detector ,one door sensor, one siren and one power adaptor, the built-in battery can work for 20 hours when external electricity power down, please do not turn on the battery switch before the main unit normal working to protect the battery life time., when the external power adaptor working on, turn on the battery switch to charge the battery at the same time.
2. The main unit initial user password is 1234, which is used for keypad setting and remote distance operation, user can modify the password by himself but should keep in mind the new ones.
3. Main unit working voltage: DC9V~12V, working current: idle 30mA, alarm 300mA, external power adaptor input AC voltage: 220V/AC or 110V/AC
4. All the accessories are matched well for the main unit use, the PIR detector should turn on the battery switch, the door sensor should install the battery before use.

C use method

1. Prepare a SIM card which must be sure of valid use period, insert the SIM card into the proper position of the main unit , the card's metal side should be in the down direction
2. After inserting the SIM card, plug in the external power adaptor, the main unit begin initialization, LCD display "INIT--00 00", the GSM signal LED blinking rapid at first, then the GSM signal LED blinking slower after the main unit received the GSM signal, the main unit give out one "beep" sound, and if three "beep" sound means not received the GSM sound

Plug in the PSTN landline if available. The main unit will dial the PSTN landline at first when alarm taking place, and send SMS out at the same time. If no landline connected with the main unit, it will dial the alarm phone number by GSM cell network and send SMS at the same time

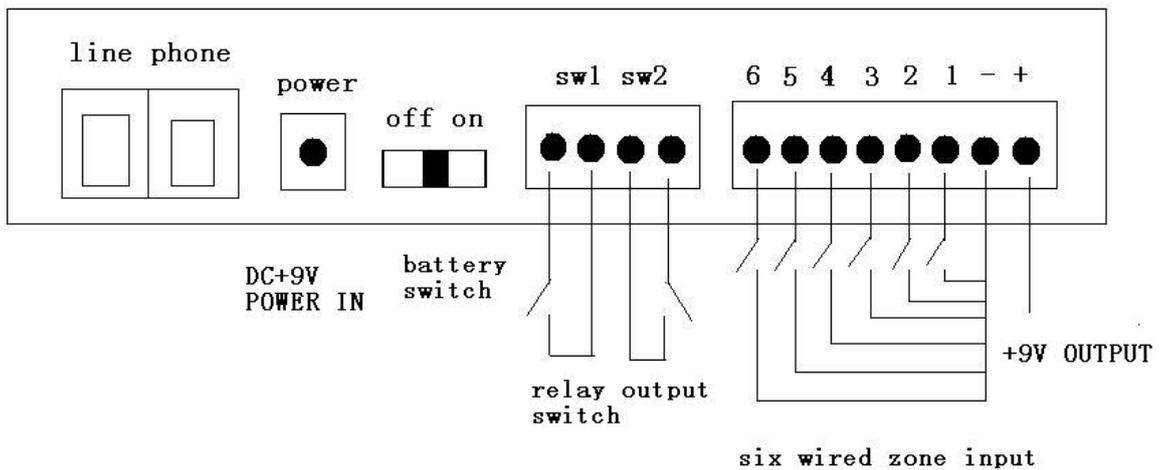
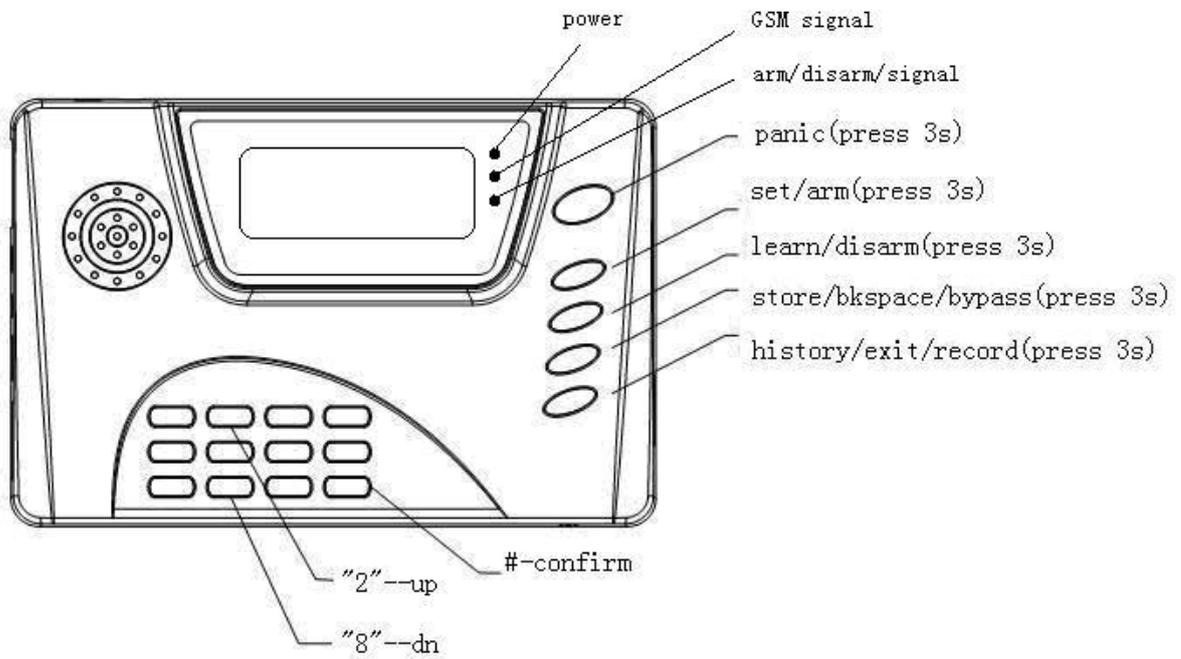
3. LED display

The top LED is power indicator, the middle LED is GSM signal indicator, the third is status indicator, which lighting up means arming, lighting off means disarming, rapid blinking means alarm

Press the "lock " button of remote controller to arm the main unit , the status LED light up, Press the "unlock " button disarming the unit , the status LED light off.

4. Store one group or several group telephone numbers to receive alarm message, and record alarm memo messages, you can start to test the unit function(detailed operation method showed later)
5. Use remote controller to arm the unit, turn on the PIR detector battery switch, install the battery for door sensor, test the main unit alarm process effect before installation
6. PIR detector is installed on indoor wall with height 2.2m or so, adjust the direction angle to make it perpendicular to people walking direction, maximum response coverage range is 10m. the wireless door sensor ' s emitter part (with antenna) would be installed on door, and the magnetic bar should be installed on door frame, the two parts should be closed when door closed , and departed to emit signal (LED light up) when door opened.

D operation method



Arm and disarm

Arm by using remote controller	press arm key lock 
Disarm by using remote controller:	press disarm key unlock 
Bypass alarm by using remote controller:	press bypass key bell or speaker 
Panic Alarm by using remote controller	press panic key lightning 

Remote controller function description:

- Arm: press key “lock”, all detectors will trig alarm when received alarm signal
- Bypass arm: fast press key bypass two times, all other detectors will trig alarm when received alarm signal apart from detectors which is set as bypass type, for example, bypass PIR detectors is installed in indoor use, when there are peoples at home, the bypass PIR detector will be in disarm state, and other detectors installed outside of activity room will in arm state.
- Disarm: press disarm key “unlock”, all detectors will not trigger alarm when received alarm signal, except panic alarm signal
- Panic button: panic button on remote controller and main unit keypad will trig alarm in any status

Arm and disarm on main unit keypad:

- Arm: Press arm key on main unit for more than 3 seconds and input password and # and release
- Disarm: Press disarm key on main unit for more than 3 seconds and input password and #and release
- Bypass arm: press bypass key on main unit for more than 3 seconds and input password and # and release

Note : no need input password again when input password ten only seconds time and exit setting

Store telephone numbers for receiving alarm messages

Press key “store” on main unit, input four digit password(initial value is 1234) and #, press key “up” or “dn” to select the telephone number group number(value from 1 to 6 total six group number is for auto dial , value from 7 to 12 is total six group is for receiving short message SMS), press key “# ” to confirm, press key “backspace” to clear old values, input new numbers as you expected, press key “#” to confirm, press key “ exit ” can exit the process.

If you need to store another group telephone numbers ,then repeated the above

process.

You can store maximum 12 groups of numbers, and you also can left any group numbers t blank. The alarm process will dial the first six alarm numbers and send short messages SMS to last six group numbers one by one consecutively, if any group numbers is void, it will skip the blank group numbers and report to the next group, the whole alarm process will repeat three times to dial the alarm phone numbers from first to six if no one answer the alarm.

The last six numbers can be same or not same as first six groups numbers.

At least one group alarm telephone numbers must be stored into the main unit.

Setting ten seconds recording messages

Press key “record ” for more than three seconds, input four bit password,

Select “1” to record voice: start speaking for less than ten seconds ,press “exit ” key to stop recording

Select “2” to playback voice: listen voice from the speaker to confirm if it is correct

Recording content can be as follows: “alarm event from xxx room ,xxx floor,xxx building..please handle it immediately...”

Look up alarm history event

Press key “his”, input four bit password, press key “up” or “dn” to check most new alarm event records, maximum 99 records. Press key “bkspc” +four bit password +# can delete records.

Receiving alarm

when your telephone machine or mobile phone receiving the alarm phone, just connecting the alarm phone and press key on your phone to control the alarm unit as follows:

press “1” to monitor voice	press “2” to open siren sound
press “3” to close siren sound	press “4” to arm
press “5” to disarm	
press “6” to talk (in GSM mode) or speak (in landline mode)	
press “7” close talking or speaking	
press “0” playback recording voice	press “#” to exit

press “8” to close relay output

press “9” to open relay output (relay output current must less than 300mA)

Remote operation

while you are far away from the alarm machine, you can also control the alarm machine by following method: dial the alarm unit phone number , you will hear two “beep” sound from your phone after six ringback sound auto-connecting on, then input four bit password(default value is 1234), if password input wrong, you will hear three “beep” sound, if password input correct, you will hear two “beep” sound, then input command code on your phone as follows (same command format as receiving alarm),

press “1” to monitor voice press “2” to open siren sound
press “3” to close siren sound press “4” to arm
press “5” to disarm
press “6” to talk (in GSM mode) or speak (in landline mode)
press “7” close talking or speaking
press “0” playback recording voice press “#” to exit

press “8” to close relay output
press “9” to open relay output (relay output current must less than 300mA)

Short message SMS control function

Send SMS “password+ARM” to main unit to arm the unit, for example:
1234ARM

Send SMS “password+DISARM” to main unit to disarm the unit

send SMS “password+BYPASS” to main unit to bypass arm the unit

Send SMS “password+ONSIREN” to main unit to start siren

Send SMS “password+OFFSIREN” to main unit to stop siren

Other Special Functions

Below is more special function setting, it is optional setting for user.

Press key “set”, input four bit password ,default value is 1234 , then press “#” to confirm,(please note press key “exit” can exit setting process from all below process):

Then

Press “1” then press key “up” “dn” to select below function
select “1” then press key “bkspace” to **set telephone line cutoff alarm.** Press key “up” “dn” to select “ON” ,then press “#” to save line cutoff alarm function. Press key “up” “dn” to select “OFF” ,then press “#” to save closing line cut-off alarm function. For pure GSM network, this function is no use

select “2” then press key “bkspc” , then press key “up” “dn” to select “ON” , press “#” to save . Press key “up” “dn” to select “OFF” , press “#” to save closing GSM no signal alarm function.

Select “3” to check GSM signal value

Press “2” to set siren sound alert when using remote controller arm & disarm, use key “up” “dn” to select “ON” “OFF” ,press “#” to save it. Default is “ON”

Press “3” to set password protection for arm or disarm by keypad, press “up” “dn” to select password protection “ON” “OFF”, press “#” to save settings. Default is “ON”.

Press “4” to set siren acting time, press key “bkspc” ,then input 2 bit time value, range from 00,01,02,...99 minutes), then press “#” to save the value, default is 02 minutes.

If user need to close the siren sound, please set the above siren time as zero “00”

Press “5” to set new password, press key “bkspc”, then input four bit new password, press “ # ” to save , (note: if user forgot old password, please use super-password “0755” to enter into setting process, then setting your new password

Press “7” the press “up” “dn” to select function

Select “1” to set remote distance dial ringback times, press key “bkspc” then input ringback times,press “#” to confirm, value range from 0~ 9, default is 6 times.

Select “2” then press “bkspc”, press “up” “dn” key to select “ON” or “OFF”, press “#” to save it. “ON” means open **external power down alarm**, “OFF” means close external power down alarm.

Select “3” then press “bkspc” , press “up” “dn” key to select “ON” or “OFF”, press “#” to save it. “ON” means open **low battery alarm**, “OFF” means close low battery alarm

Press “8” setting alarm delay time and arm delay time

Press “up” or “dn” to select alarm delay time(“alarm”) or arm delay time (“arm”)

Press key “bkspc ” then input time value , time range from 00 to 99 seconds, press “#” to confirm, press “exit ” to exit the process. Only the accessories be set as delay type then the alarm delay time is effective.

Press “9” to set automatic arm or disarm time. There are three group time can be set for each day.

Press key “up” or “dn” to select one group time “arm” or “disarm”, use key “set” to select open or close the action, when select “open ” the action ,press key “bkspc ” to clear old value, then input new time value (input activated day range : “x” day to “x” day , hour, minute, for

example: input: “ 1 7 18:30” means from Monday to Sunday 18:30 to start arm or disarm),press “#” to save the time value. Press “exit” to exit to upon layer menu. Setting content including: start time, end time, etc.

Press “0” to set date , press key “bkspace” then input new year ,month, day , hour, minute, etc,
press “#” to confirm, press “exit” to exit setting

Press “*” to reset , then press “#” , input four bit password again , press “#” to reset the main unit. The “reset” command will restore all the settings to default value.

Setting wireless and wired accessories

The wireless accessories like remote controllers, PIR detectors, door sensors in the standard DIY kit are already learned to the main unit and can be used directly. If user need to add extra accessories to the main unit, the extra wireless parts must be learned to the main unit before it can be used normally according to follows steps,

Press “learn” , then input four bit password

Input “1” to learn remote controller, input two bit zone number, press “# ” to confirm, press a button on the remote controller to trig wireless signal emitting to finish the learning process

Note :zone number distribution as follows:

Remote controllers: zone from 01 to 06

Wireless detectors: zone from 07 to 99

Wired detectors: zone from 01 to 06

Input “2” to learn PIR detector, input two bit zone number, press “# ” to confirm, turn on the battery switch to trig wireless signal emitting to finish the learning

Input “3” to learn door sensor detector, input two bit zone number, press “# ” to confirm, use the magnetic bar close to the door sensor emitter then departed away to trig door sensor to emit wireless signal to main unit

Input “4” to learn active wireless IR beam alarm , input two bit zone number, press “# ” to confirm, power on the wireless IR beam and trig its wireless signal to main unit to finish the learning process(note: the IR beam is the detectors to detect people walking passing across the IR beams to trig alarm)

Input “5” to learn wireless gas detector, input two bit zone number, press “# ” to

confirm, power on the gas detector and trig the gas detector to emit wireless signal to the main unit to finish the learning

Input “6” to learn wireless smoke detector , input two bit zone number, press “# ” to confirm, power on the wireless smoke detector and trig the smoke detector to emit wireless signal to main unit to finish the learning

Input “7” **setting wireless detectors alarm delay time or delete detectors**

Input “up” or “dn” to select the wireless detector, press “set” to select the detectors alarm mode: delay alarm / arm / emergency(panic) alarm/arm bypass/disarm

The “delay alarm” means when main unit received the alarm signal, it will report alarm by a delayed time

The “arm” setting means the detector’s alarm signal is immediately reported by main unit when the main unit is set as effective arm

The “emergency” setting means the detector will trig immediate alarm when received alarm signal under arm or disarm state

The “arm bypass” means the detector ’ s alarm signal will not report to user by main unit under bypass arm state, but only report to user under arm state.

The “disarm ” means the detector will be deactivated under any state.

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delete wireless detectors:

Input “up” or “dn” to select the wireless detector, press “bkspace” then input password to delete the detector, press “exit” to exit the process

Input “8” setting remote controller emergency alarm sound or delete remote controller

Input “up” or “dn” to select the remote controller, press “set” to set panic with sound or panic without sound alarm,

delete remote controller:

Press “bkspace” and password to delete the remote controller

Input “9” set wired accessories function

Input “up” or “dn” to select the wired detectors, press “bkspace” to set “ON” or “OFF”, ON means normally open, OFF means normally closed

Press “set” to set the wired detector’s trig mode: delay alarm / arm delay / emergency(panic) alarm/arm bypass/disarm, this function is same as wireless detectors

*******Brief Command Table*******

Store alarm telephone number:	sto+password+#+ up/dn+bkspace+phone number+#
Record ten seconds alarm voice:	record 3s +password+#+1+speaking
Playback ten seconds voice:	recoed 3s +password+#+2
Lockup history event:	his+password+#+up/dn
Delete history event:	his+password+#+up/dn+bkspace+password
open line cutoff alarm:	set+password+#+1+up/dn+1+bkspace+up/dn("ON")
close line cutoff alarm:	set+password+#+1+up/dn+1+bkspace+up/dn("OFF")
open arm/disarm siren sound:	set+password+#+2+up/dn("ON")+#
close arm/disarm siren sound:	set+password+#+2+up/dn("OFF")+#
open arm/disarm password protection:	set+password+#+3+ up/dn("ON")+#
close arm/disarm password protection:	set+password+#+3+ up/dn("OFF")+#
set siren active time length:	set+password+#+4+bkspace+time(0~99s)+#
set new password:	set+old password+#+5+bkspace+new password+#
set ringback times:	set+password+#+7+up/dn("1")+bkspace+ringback times(0~12)+#
open external power cutoff alarm:	set+password+#+7+up/dn("2")+bkspace+ "ON"+#
close external power cutoff alarm:	set+password+#+7+up/dn("2")+bkspace+ "OFF"+#
open battery low alarm:	set+password+#+7+up/dn ("3")+bkspace+ "ON"+#
close battery low alarm:	set+password+#+7+ up/dn ("3")+bkspace+ "OFF"+#
set arm delay time:	set+password+8+up/dn("arm")+bkspace+time(0~99s)+#
set alarm delay time:	set+password+8+up/dn("alarm")+bkspace+time(0~99s)+#
set automatic arm:	set+password+#+9+up/dn("arm")+set("open" or "close")+bkspace +time+#
set automatic disarm:	set+password+#+9+up/dn("disarm")+set("open" or "close")+bkspace +time+#
set date and time:	set+password+#+0+bkspace+time+#
main unit reset:	set+password+#+password+#
learn remote controller:	learn+password+#+1+two bit zone number +#+(signal)
learn PIR detector:	learn+password+#+2+two bit zone number +#+(signal)
learn door sensor:	learn+password+#+3+two bit zone number +#+(signal)
learn IR beam:	learn+password+#+4+two bit zone number +#+(signal)
learn gas detector:	learn+password+#+5+two bit zone number +#+(signal)

learn smoke detector: **learn**+password+#+6+two bit zone number +#+(signal)

set wireless detector with arm delay time: **learn**+password+#+7+up/dn+set+delay +#
press key “set” again to set: delay/arm/bypass/emc/disarm

delete wireless detector: **learn**+password+#+7+up/dn+bkspc+password+#

set remote controller as panic with sound: **learn**+password+#+8+up/dn+set
+panic with sound+#

set remote controller as panic without sound: **learn**+password+#+8+up/dn+set
+panic without sound+#

Delete remote controller: **learn**+password+#+8+up/dn+bkspc+password+#

Set wired detector as open type: **learn**+password+#+9+up/dn+bkspc+ON+#

Set wired detector as close type: **learn**+password+#+9+up/dn+bkspc+OFF+#

Set wired detector as arm delay type: **learn**+password+#+9+up/dn+set+arm delay+#
press key “set” again to set: delay/arm/bypass/emc/disarm