

**TWO-WAY LCD
VEHICLE SECURITY SYSTEM
USER MANUAL**

TECHNICAL SPECIFICATION

1. Main Control Module

Working Voltage Range: 9V-15VDC
Stand by Current Consumption: ≤ 20 mA
Active Current Consumption: 500 mA - 2A
Working Temperature Range: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Frequency Range: $315 \text{ MHz} \pm 75\text{MHz}$
TX Range: ≤ 40 m
Working Mode: ASK

2. 2-Way LCD Remote Control

Working Voltage Range: 1.0V-1.7VDC
Frequency Range: $315 \text{ MHz} \pm 75\text{MHz}$
TX/RX Mode: ASK
TX Range: ≤ 30 m (in open area)

QUICK REFERENCE ON USE OF REMOTE CONTROL

1. Button

Alarm disarmed: Press button   once, the central door lock will lock, the ignition and the trunk will arm in 3 seconds, and the doors will arm automatically after the dome light is turned off, the sensor will be activated in 25 seconds to ensure the lifting operation of the power window is completed.

While driving: Press button   once, the doors will lock/unlock.

Alarm triggered: Press button   once, the system will disarm.

Alarm armed: Press button   once, the system will disarm.

2. Button

Alarm disarmed: Press button   once, the system will enter silent armed mode in 3 seconds and the doors will lock.

Alarm armed: Press button   once to locate the vehicle.

While driving: Press button   twice, the system will enter anti-hijack mode.

Alarm sounding: Press button   once, the siren will stop sounding instantly.

3. Button

Alarm disarmed: Press button   once, the trunk will open.

Alarm armed: Press button   &   once(For system without remote engine start ,press button   twice), the sensor and the driver paging function will be turned off temporarily.

Alarm sounding: Press button   once, the siren will stop sounding instantly.

Alarm armed: Press button   twice, the engine shall be started.(For system with remote engine start.)

QUICK REFERENCE ON USE OF REMOTE CONTROL

4. Button

Press & release button  once, the LCD of the Remote Control will be illuminated for 1 second (Press button  once when the alarm is triggered , the LED will be illuminated for 4 seconds.)

While the alarm is disarmed, turn the ignition to ON position, press & hold button  for 3 seconds, the AUTO function will be turned ON/OFF.

NOTE: The duration of each pressing of a button should be over 0.5 second. If a second pressing of a button is needed, it is recommended to press the button after the icon  disappeared from the LCD screen due to two-way communication.

BRIEF LOOK AT EACH DEVICE

1. Main Control Module (for vehicle of negative polarity ground 12V constant power)

It is a main part of the Vehicle Security System and it is usually installed in a hidden location under the bottom of the dashboard in the vehicle. Use the wiring diagram as a reference, connect the module wires to the vehicle's ignition, turn signal lights, constant power, etc respectively. Make sure to connect each wire firmly and protect the connected part of the wire properly with quality electrical tape to make it perfectly insulated. After the connection of each wire, insert the plugs into the module connectors. Test the system with the remote control to see whether each button functions correctly.

After you confirm nothing is wrong, bundle the wires orderly and put the existing vehicle wiring harnesses back the original locations.

2. Communication Module (with Paging Sensor inside)

It transmits and receives RF signal with the Remote Control. It is a key component of the system so the selection of the mounting location is very important. Normally it is mounted to the top or bottom right corner of the windshield. It shall not be close to the silver-gilt film on the windshield or the transmission and receiving of the module will be affected. The distance between the module and the metal frame of the vehicle's body shall not be less than 5 cm.

3. Shock Sensor (Selectable Accessory)

It is an intelligent dual stage shock sensor that can distinguish whether the vehicle is impacted lightly or heavily. When an impact is applied to the body of the vehicle, it sends signal to the Main Control Module to set off siren alarm sound and to make Remote Control emit audio and visual warning signals. The Shock Sensor should be firmly mounted on the frame of the vehicle's body so that it can respond to the external impact as correctly as possible. After installation, adjust the sensitivity to the desired level according to the actual need and the size of the vehicle. (The sensitivity has been set to an optimum level in the factory. Please do not adjust it again if it is not necessary.)

BRIEF LOOK AT EACH DEVICE

4.Siren

If installed, alarm sound of higher than 110 dB is set off from the siren when the vehicle is attacked. It should be mounted in a place to protect it from heat and water damage.

5.Remote Control

The Remote Control mainly consists of ASK electronic circuits, LCD screen, melody buzzer and a vibrator. Each graphic icon displayed on the LCD screen and each different melody/beep sound tone emitted from the Remote Control gives you both visual & audio information on the vehicle's status, every operation status/process of the System or System's present status.

POINTS TO BE NOTED FOR YOUR BETTER USE

1. About Two-Way Transmission

As the system is of two-way signal transmission, sometimes the time required for communication takes longer than usual when communicating remotely either to operate the system or to check the operation result since a large amount of information is to be exchanged between the TX part and RX part of the system with one press of button. The unique transmission logic that has both wake-up mode and sleep mode during communication may also result in such delay of signal transmission. For instance, if a signal from TX part is sent to RX part of the Main Control Module while it is in sleep mode, the RX part may not recognize the signal sent by TX part for a few seconds until when the RX part of the Main Control Module gets in wake-up mode and visa versa. Due to the same reason, when you shut down any of the system's operation and if there are no response with your first press of a button, we recommend you to press the button again after waiting 3 seconds.

Press button  once while the alarm is armed, the Remote Control will beep 3 times and indicate the system is within communication range. If the system is interfered by strong radio frequency around, sources of high voltage electric power or such obstacles like tall buildings and so on, the Receive range may get shorter as the system uses low output powered frequency.

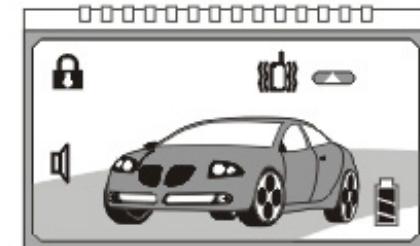
2. Battery Replacement

The Remote Control is powered by a 1.5V type alkaline battery. When the battery is new, the icon  will display on the LCD screen. When the power of the battery is exhausted, the icon  on the LCD will flash and a new battery should be replaced. If the time duration for replacement of the battery is within 15 seconds, the icons on the LCD screen of the Remote Control shall remain unchanged.

FEATURES ILLUSTRATION

1. Arm The Vehicle & Door Lock

Exit the vehicle and close all of the doors. Press button   , the siren will chirp once, the turn signal lights will flash once, the doors will lock, the power window output will be activated, the Remote Control will emit a short chirp, the ignition and the trunk will arm in 3 seconds, the doors will arm automatically after the dome light is turned off, the sensor will be activated in 25 seconds and the LED status indicator will begin flashing slowly. The LCD screen on the Remote Control displays as picture (1).



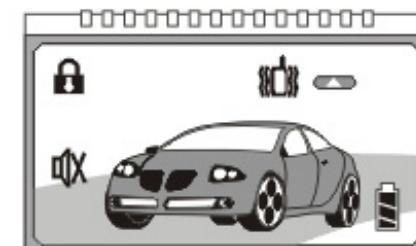
Picture (1): Arming with sound and light

IMPORTANT!

Please close all the windows completely before arming the vehicle or make sure there is not any obstacle that will affect the lifting operation of the windows. Otherwise the power window will not work properly or be damaged.

2. Silent Arming

It is to mute a short siren alarm sound from the vehicle when you operate any functions by pressing button of Remote Control. You'd better turn off the chirp sound not to disturb your neighbors, for instance, if you operate the system late at night in a residential area. Press button  once while the alarm is disarmed, the alarm will enter silent arming mode. The LCD screen on the Remote Control displays as picture (2).



Picture (2): Silent arming

FEATURES ILLUSTRATION

3. Disarm The Vehicle & Door Unlock

A. Press button  while the alarm is armed with sound and light, the siren will emit 2 chirps, the turn signal lights will flash twice, the central door lock will unlock, the LED will stop flashing, the system will disarm and the Remote Control will beep twice. The LCD screen on the Remote Control displays as picture (3).

B. Press button  while the alarm is in silent armed mode, the turn signal lights will flash twice, the central door lock will unlock, the LED will stop flashing, the system will disarm and the Remote Control will beep twice. The LCD screen on the Remote Control displays as picture (3).

C. If you do not open any vehicle door after disarming the system within 25 seconds, the system will rearm automatically, the doors will lock and the Remote Control will beep once.

D. The alarm has an intrusion memory. If the alarm is triggered while it is armed, the siren will emit 4 short chirps and the turn signal lights will flash 4 times upon disarming the alarm.

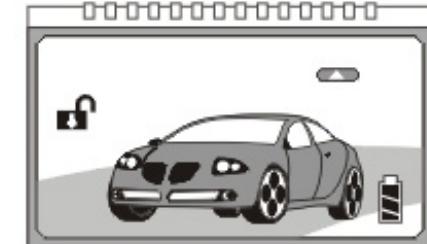
4. Remote Trunk Release

Press button  while the alarm is disarmed or the ignition is ON, the trunk shall be opened but there is no indication on the LCD screen.

5. Vehicle Finding

Press button  while the alarm is armed with sound and light, the siren will emit 3 short chirps and the turn signal lights will flash 3 times for locating the vehicle.

Press button  while the alarm is in silent armed mode, only the turn signal lights will flash 3 times for locating the vehicle.



Picture (3): Alarm disarmed