

## TWO-WAY LCD VEHICLE SECURITY AND ENGINE STARTER SYSTEM

Super long distance PLL-FSK technology more than 3000 meters

3D digital shock sensor, which detect six directions even the tilt of the car

Detect and Adjust the shock level at any time

Tachless or Tachness (Oil sensor, High-voltage and Tach) for remote starter (Option)

Smooth operation between  $-40^{\circ}\text{C}$ ~ $85^{\circ}\text{C}$

Battery capability weaken arming

Auto-detect neutral position of manual car when remote starting

Three kinds of starting mode: Remote Engine Start, Remote Start Timer Mode and Temperature Start Mode

The spot of temperature start can be adjusted by remote control up to user's requirement

IMPORTANT INFORMATION REQUIRED BY THE FCC  
THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV  
INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS  
EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S  
AUTHORITY TO OPERATE THE EQUIPMENT.

TWO-WAY LCD VEHICLE SECURITY AND ENGINE STARTER SYSTEM





# 2300 Series

### MANUAL FOR OPERATION AND INSTALLATION

please read this manual carefully before operate and install the machine

Thank You for Purchasing 2300 Series Long-Range Two Way PLL-FSK Vehicle Security System with 3D Sensor

This vehicle security system features a state-of-the-art technology and PLL-FSK design to give you maximum safety and satisfaction in using the system.

- 1) Please read this manual carefully before using this car alarm system so that you'll take the full advantage of every marvelous features provided by the system.
- 2) The local authorized dealer is responsible for the service and warranty.
- 3) The system requires no specific maintenance. Your remote control is powered by a small 1.5volt LR03 AAA Alkaline battery. When the battery weakens, operating range will be shortened. When the battery icon "" turns to the icon "", please replace the battery.
- 4) This device complies with part 15 of FCC rules. Operation is subject to the following two conditions: ① This device may not cause harmful interference, and ② This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.
- 5) Due to the complexity of this system, it must be installed by an authorized dealer only.
- 6) All the modules and interconnection cables are inaccessible to the end user except the remote control, valet switch, the communication unit and its signal cables.

## CATALOG

I	Product Description.....	(4)
II	remote control Setting.....	
	1. LCD Screen Description.....	(5)
	2. The Button Description.....	(6)
	3. Key Lock Function of Remote Control.....	(7)
	4. The Options of Remote Control Through Menu Setting.....	
	A. Backlight Setting of Remote Control.....	(7)
	B. Sound or vibration of Remote Control.....	(7)
	C. The choice of Centigrade or Fahrenheit.....	(7)
	D. Correction of Real-time Clock.....	(8)
	E. Silent Arming Mode.....	(8)
	F. Setting the shock sensor level.....	(8)
	5. Battery condition instruction and the replacement method.....	(9)
III	Set and Control the vehicle by Remote Control.....	
	1. Standard Arming Mode.....	(9)
	2. Multi-Level Security Arming.....	(10)
	3. Panic Mode.....	(11)
	4. Anti-robbery.....	(11)
	5. Disarming.....	(11)
	6. Trunk Release.....	(12)
	7. Query Function.....	(12)
	8. Turbo/Short Run.....	(12)
	9. Auxiliary Output.....	(13)
	10. Valet Mode.....	(13)
IV	Start By Remote Control.....	
	1. Remote Engine Start.....	(14)
	2. Remote Start Timer Mode.....	(14)
	3. Temperature Start Mode.....	(15)
V	Assistant Functions.....	
	1. Auto-lock and Auto-unlock.....	(15)
	2. Windows Roll Up.....	(15)
	3. Dome Light.....	(16)
	4. Passive Arming.....	(16)
	5. Automatic Re-arming.....	(16)
	6. Door Status Reminder.....	(16)

- 7. Status Memory..... (16)
- 8. Smart LED Indicator..... (16)
- 9. Code Hopping ..... (16)
- 10. Battery Capability Shortage Arming..... (16)

## VI Showing the status of car alarm system

- 1. Impact..... (17)
- 2. Slope..... (17)
- 3. Door..... (17)
- 4. Hood..... (17)
- 5. Trunk..... (17)
- 6. Optional..... (18)
- 7. IGN..... (18)

## VII Main Unit Program

- 1. Code Memorizing of Remote Control..... (18)
- 2. Disarm the System Without Remote Control..... (19)
- 3. Program Features..... (19)
- 4. Checklist of Option..... (20)

## VIII The Installation Of the whole unit

- 1. Wires Description ..... (21)
  - (1) Starter Module Harness Description ..... (21)
  - (2) Brain Unit Harness Description ..... (21)
  - (3) Peripheral Plug-in Connectors ..... (23)
- 2. Door Lock Wiring Diagram ..... (23)
- 3. System Installation ..... (26)
- 4. Install Guide For Communication Unit ..... (26)
- 5. Quick Reference Guide for System Wiring ..... (27)
- 6. The Installation of Remote Starter ..... (28)

## IX.FAQ..... (29)

## I Product Description



### Remote Control:

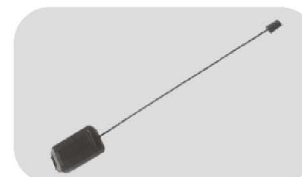
- 1. Menu icon
- 2. Save Power
- 3. Shock level setting
- 4. Super long distance PLL-FSK technology more than 3000 meters
- 5. Visual and audio alert on Remote Control and temperature indicate on Remote Control



BrainUnit:  
Detect the temperature inside the car



Remote Starter Module:  
Gear checking function for manual car, guarantee the security.



Antenna: 1. 3D sensor built-in  
2. Temperature compensation  
3. Adopt PLL-FSK technology at 433.92MHz



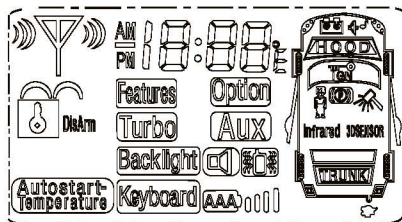
Valet Switch is for Disarm the system without Remote Control, Program Features and Code Memorizing of Remote Control.



## TABLE OF BUTTONS CONFIGURATION

### II The Setting of Remote Control

#### 1. LCD Screen Description



2300B/C

Notes:

1. The LCD screen of 2300B and 2300C are the same.
2. The contents of the LCD screen of 2300A, 2300B and 2300C are the same.
3. The instruction below follows the 2300B.

Icons	Icon Descriptions
	Receive State of remote control
	Transmit State of remote control
	Alarm of the car slope
	Battery of car(When it appears, showing the shortage of battery)
	Mute of car alarm system (When it disappears, showing the mute status)
	Hood
	IGN State of car
	Alarm of shock
	Door
	Hand Brake(it is only effective to the vehicle with starting function)
	Field disturbance sensor (microwave sensor)
	Trunk
	Remote starts successfully or remote start timer mode ON
	Arm
	Disarm
	Turbo mode
	Auto-start by assigned temperature
	Backlight of remote control
	Keylock of remote control
	Programmable auxiliary output
	Battery of remote control
	The sound of remote control
	The vibration of remote control
	Multifunctional Display
	Morning
	Afternoon
	Time

## TABLE OF BUTTONS CONFIGURATION

Icons	Icon Descriptions
	Centigrade
	Fahrenheit
	Temperature
	Features choice from 1 to 15
	Options choice from 1 to 3
	Shock sensor level from 1 to 8
	The level of Multi-level Security Arming from 2 to 5

#### 2. The Button Description

Button	Duration	Function	Condition
	0.5 sec	Arm and Lock	Non-driving
	2.0 sec	Panic Mode	
	0.5 sec	Disarm and Unlock	
	2.0 sec	Trunk Release	Any time
	0.5 sec	Remote Query	
	2.0 sec	Auxiliary Channel 5 Output	
	0.5 sec	Remote Start Timer Mode ON/OFF	Non-driving, Armed
	0.5 sec	Remote Start ON/OFF	
	0.5 sec	Lock	
	2.0 sec	Anti-robbery	Driving
	0.5 sec	Unlock	
	0.5 sec	Turbo Mode ON/OFF	
	2.0 sec	To Activate Set-up Menu	Any time
	0.5 sec	Keylock ON/OFF	
	0.5 sec	The digital Increment	
	0.5 sec	Function Confirm	Menu Activated
	0.5 sec	Function Cancel	
	0.5 sec	Function Shift	

Note: "+" means press the buttons in sequence within 2 seconds.