



Full Color 2-way Remote Car Starter & Alarm System



- 65K Color OLED Rechargeable Li-Polymer Battery ■
- 3D Motion Video Long RF Range ■
- Touch Unlock Pull-down Menu ■



Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The 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 the equipment.
Connecting of peripherals requires the use of grounded shielded signal cables.

Before Usage

- This product is for DC 12V vehicles only.
- The quality of this product is guaranteed only when installed by a technician of our dealer according to installation instruction.
- This alarm system is not able to protect the vehicle completely from the burglary. We hold no liability for an accident caused by wrong installation.
- Keep the remote control dry. Do not drop or disassemble it.
- In case of missing remote control contact the dealer near you to delete the old code and input the code of new remote control.
- Pull on the hand brake of a manual transmission vehicle on a steep hill to prevent car accident and do not start your car remotely. (See page 9 to cancel the reservation.)
- Shock sensor may make a false alarm when a strong inducted current happens like thunder or lightning. Adjust the sensitivity of the sensors properly to prevent a false alarm.
- Make it sure not to use in the closed area to prevent air-pollution. Do not exceed the legally permitted engine runtime.
- This system uses low-powered radio wave. Hence, the operating range may be shortened due to jamming or weather.
- This product is designed for installation in practically all cars. However, in case of improper installation, unfit electrical system or aged cars the system features may operate irregularly and malfunction.
- Please note the phone number of the authorized dealer or installer for emergency.

■ The images of the remote control are subjected to change.

Remote

Adopted 65,000 colour Organic Light Emitting Diode (OLED). OLED is self-emissive and has the following advantages: great brightness, fast response time for full motion video, full viewing angles, light weight, great durability, power efficiency, broad operating temperature ranges. Be noted that this 3-button remote with a built-in buzzer is not waterproof.



Power ON/OFF

Press button II + III for 5 sec. to turn on/off the power. We recommend to turn off the power if you don't use the remote control for long time.

Remote Control

Reset

In case of button lock-out, errors or freeze of the display it is recommended to re-set your remote control.

- ✓ To reset prick a pin into the small hole in the middle of the left side.

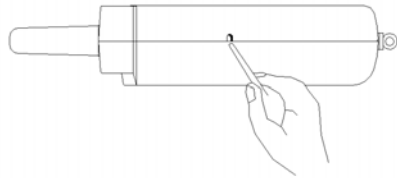


Image Box (Optional)

Your lovely picture can be saved and displayed. Send your own image (jpg format) and the remote to near dealer.

- ✓ To view the image (2 sec. long) press button II.



Charging the Battery



Plug-in Car Charger

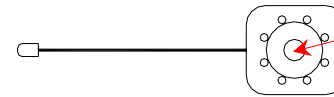
Powered by a built-in 3.7V Lithium Polymer battery. If the battery level shows one bar, charge your remote. The LED of the charger lights GREEN when the battery is full (after ca. 15~30 min.). Refrain from unnecessary pressing of the buttons to prevent rapid current consumption.

- ⚠ Use the supplied plug-in car charger ONLY. Otherwise, the battery could explode or the remote's circuit can go wrong. Plug in the charger when the engine is running.

Communication Module & Touch Sensor

Communication Module

Attach the antenna (so-called Transceiver) on the front windshield or frame. When attached on the place where the window is tinted, the operating range can be apparently shortened due to RF interception.



■ Adjustment of the Proximity

Adjust the sensitivity of the proximity (key-less entry) by turning of the screw in the middle. Turn it clockwise to diminish, and counter-clockwise to increase the distance.

Touch Sensor

Attach the touch sensor on the front windshield. You can lock and unlock the doors without a key or remote by fingering of the saved 4-digit PIN on the touch sensor. See page 15 how to use. The LED in the middle indicates current status of the system.



■ LED Indicator

R/B flash continuously: system armed
Red flashes: the vehicle is attacked
Blue On: valet mode
Blue flashes: auto-arming
LED Off: system disarmed



- ⚠ We recommended to remove stuff (like snow and mud) and to dry the part around the sensor on the front windshield. Don't use the touch sensor with the gloved finger.

Communication

RF Range Check

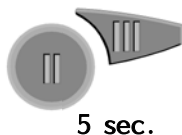
To check the communication between the remote and the system press button II. The interior temperature and the current status (arming mode, disarmed or out of range) of your vehicle will be displayed.



Operating using Remote

There are 2 kinds of system operating using the remote. The one is pressing the buttons directly and the other is to use the pull-down menu.

Power ON/OFF



Door Lock/Unlock		Remote Start	Long
Panic Siren	3 sec.	Trunk Open	
Status Check		Valet Mode	

※ You can easily operate the features like Panic Siren, Remote Start, Trunk Open and Valet by using pull-down menu. Refer to page 8.

Pull-down Menu

Operating and Setting by Pull-down Menu

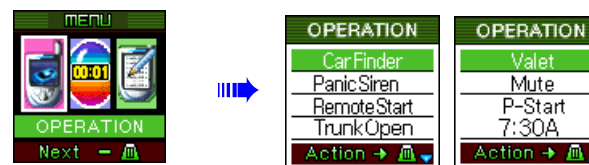


5 sec.

Press button II for 5 sec. to enter the pull-down menu. Choose one of 3 menus (Operation/Watch/System Setting) and select a feature you want to operate or setup. Button I for previous menu, button II for select/operate/save and button III for move through the (sub-)menus.

Operation

Operating by the remote. Move and select a function, and press II to operate.



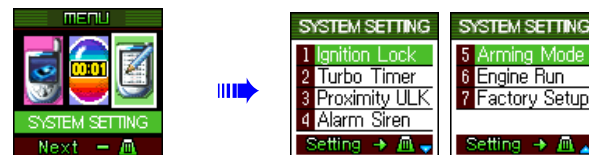
Watch

Set current time. Be noted that there could be a time tolerance.



System Setting

You can setup the system features.

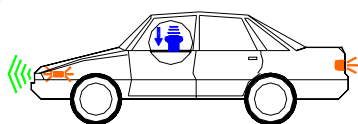


Features

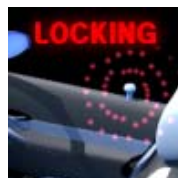
Arming / Door Lock



I or 3 sec.



- Doors locked
- System armed
- Blue and red LED blinking
- 1 chirp
- 1 flash

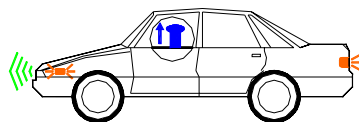


- If your remote beeps 5 sec. after door lock, you have left a door ajar. No siren. The door icon is displayed with beeps.
- The alarm system is fully armed 15 sec. after door lock.
- For ordinary operation make sure that the dome-light switch is set to illuminate when a door is opened.
- When attacked, the red LED blinks.

Disarming / Door Unlock



I



- Doors unlocked
- System disarmed
- 2 chirps
- 2 flashes



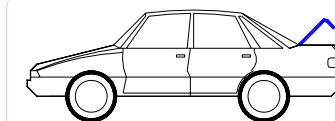
- If the system makes 4 chirps and 4 flashes, the door, hood or trunk was opened in your absence. 3 chirps and 3 flashes mean your car was bumped or hit.
- If you unlock (disarm) the doors and don't get into the car within 30 sec., the doors will be automatically re-locked (re-armed).

Features

Power Trunk Open



I + III



- ✓ When you open the trunk remotely, the sensors don't work for 30 sec.

Remote Valet

When your vehicle is being valet parked, washed or serviced, you can temporarily suspend alarm features and remote engine starting except lock/unlock and trunk open.



I + II



- 1 chirp
- Key ON- Blue LED 10 sec.
- 1 flash

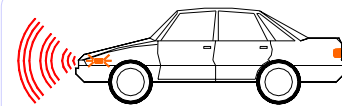


- ♻ To exit valet mode repeat the procedure above. (2 chirps)

Panic Siren



3 sec.



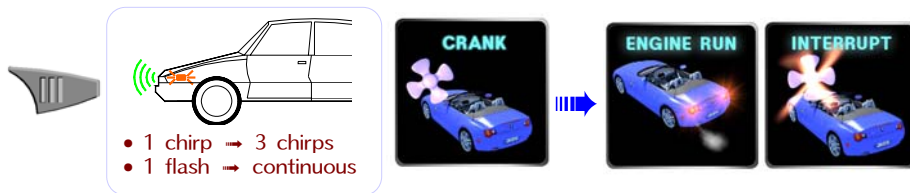
- Continuous siren and flash



- ✗ To stop the siren press button II.

Features

Remote Engine Starting



- The engine runs for programmed time (see page 19) and stops automatically if left unattended. Heater (or air-conditioner) is activated 1 min. after the engine start.
- For climate control, you must preset the heater (or air-conditioner) to the desired position before exiting the vehicle.
- If failed in the first attempt, it tries to start the engine 2 more attempts.
- While running the system is fully armed except shock sensing.

X To shut off the engine: press button III again, or unlock and lock the doors.

Reservation for Manual Transmission

To prevent unforeseen accident the gear should be in neutral position.

For your safety the system must be reserved as follows:

- ①. Set neutral gear and remove the key. The engine will run up to 1 min.
- ②. Exit the vehicle and lock the doors. The engine turns off and the system is armed.

X Cancellation

- If you OPEN a door without starting, the remote engine starting is cancelled. New reservation above mentioned is necessary.
- If you open the door before you remove the key, the engine turns off immediately and the remote engine starting is NOT reserved.
- If you unlock and lock the doors (none of the doors is opened) while engine is running, the remote engine starting is still reserved.

Features

Car Finder

With chirps and flashes you can easily find your car in the night/crowded area.



Programmable Timer Start

The engine starts at the preset time. This feature is active only while arming mode. When the time is pre-set, the icon ⌚ appears on the display.



X To cancel the time: repeat the procedure above. ⌚ disappears.

Mute

The chirp sound is muted when the remote activates your vehicle.

The icon 🚫 is displayed when set on.



X Repeat the procedure above to return to normal mode. 🚫 disappears.

Security

Alarm Trigger

In case of door-, hood-, trunk- or shock-sensing while arming, the siren howls, the parking lights flash and the warning red LED blinks rapidly.



- Continuous Siren
- Continuous Flash
- Warning red LED



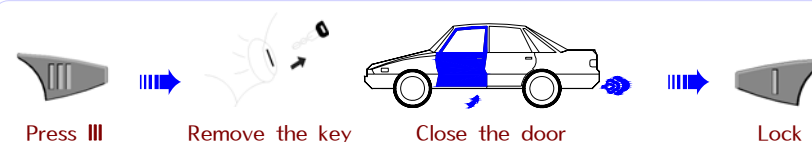
- External shock sensor: It chirps and flashes for 10 sec.
- Optional shock sensor or ultrasonic sensor: Siren works for 30 sec.
- Door, hood or trunk opened: Siren sounds for 30 sec. When sensing continuously, it goes on with the siren (30 sec.) at an interval of 5 sec.
- For hood- and trunk-sensing you may install an optional pin switch.

X To turn off the siren: Press button II or unlock the door (button I).

Convenient Features

Quick Service

Sometimes it is useful to keep your car running if you drop by at a convenience store, remove the key and lock the doors. All security functions operate normally except shock sensing while the engine is running.



Starter Kill (optional)

The starter kill will protect your vehicle from missing by disabling the engine starter while the system is armed. An optional SPDT relay should be installed. If someone tries to start your car, the starter is interrupted and the siren sounds.

Sensor Extension (optional)

An additional shock sensor, ultrasonic sensor or pin switch can be installed to reinforce your car security. Ask near dealer.

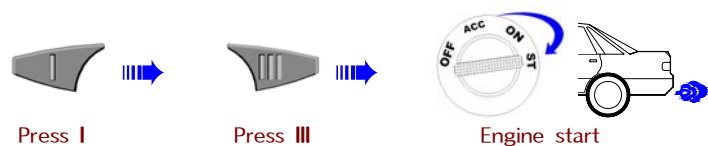
Spare Remote Control

Extra one-way remote control (Watchcon) can be coded and used together with the main remote control. To input the code see page 16.

Convenient Features

Anti-hijack

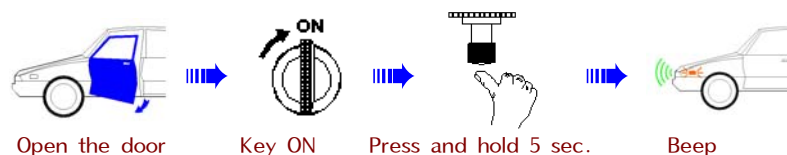
If you are the unfortunate victim of a car hijacking, be sure that the thief will not get away with your car! The engine will run only if you press III after unlocking the doors.



How to set

To use this feature you need an optional relay.

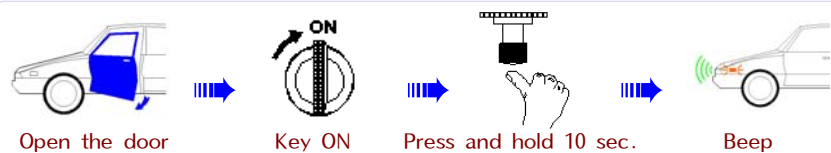
Set as described below after the installation of the relay.



X To exit Anti-hijack : repeat the procedure above. (2 chirps)
In not use, you don't need to press button III for starting the engine.

Dual Unlock Pulse

When set on (follow the description below), the dual unlock pulse will be generated when you press button I (unlock the doors).



X To cancel dual unlock pulse : repeat the procedure above. (2 chirps)

PIN Unlock

When it comes to the crunch (or in emergency) you can open the door without a key or remote control by touching on the touch sensor.

1. Touch the LED 10 times.
2. The red LED turns on. (within 5 sec.)
3. Touch the first digit.
(The blue LED flashes once for every touch.)
4. The red LED flashes. (within 5 sec.)
5. Repeat the steps 3 and 4 for the next 3 digits.
6. Is PIN accepted, the doors are unlocked.

(Ex.: PIN is 1578)

- ☞ Touch 10 times
LED On
- ☞ Touch 1 time
LED On
- ☞ Touch 5 times
LED On
- ☞ Touch 7 times
LED On
- ☞ Touch 8 times
LED On



- If 5 consecutive attempts went failed within 30 min., this feature doesn't work for the next 24 hours. (When unlocked remotely, you can use this feature again.)
- In case of wrong number or interruption the driver is paged.

- For the touch sensor responds to the weak electric current of the finger it is strongly recommended to remove stuff (like snow and mud) and to dry the part around the sensor on the front windshield.
Do not use the touch sensor with the gloved finger.

Convenient Features

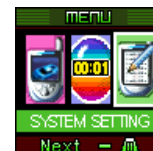
■ How to input my PIN

1. Open the door and turn the key On and Off 5 times.
2. Red and blue LED blinking. (within 30 sec.)
3. Input the first digit. (a blue flash for every single touch)
4. Red flashes for the number of the digit after 1.5 sec.
5. Repeat steps 2nd, 3rd and 4th digits.
6. When finished, the blue and red LED verify the PIN. (red -> first digit: blue -> red -> second digit: blue -> red -> third digit: blue -> red -> fourth digit)



✓ If you don't input the new PIN within 30 seconds, the old PIN is deleted and the function "Touch Unlock" doesn't operate.

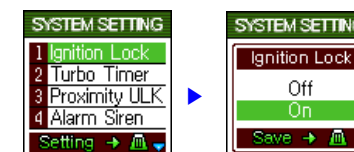
System Setting



The user can set up the system features according to the car type. It is recommended NOT to change the system setting once selected.
Menu → System Setting → Move to Sub-menu → Select
 Press **button II** to save the feature.

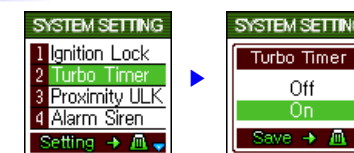
Ignition-controlled Door Lock

After engine starting by the key the doors will be locked after 5 sec. and unlocked automatically when the engine is shutoff.
 [Menu → System → Ignition Lock → On]



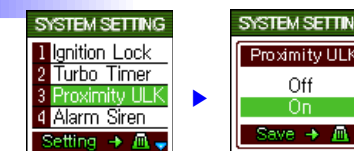
Turbo

For the turbo vehicles: the engine will run for 2 min. after the engine shutoff. When selected, ⚙ will appear.
 [Menu → System → Turbo → On]



Proximity (Key-less Entry)

The doors will be automatically unlocked when you approach, and locked when you go away from your car. When selected,))) will appear.
 [Menu → System → Proximity → On]



⚠ Be noted that the proximity could operate irregularly or malfunction due to radio jamming etc.

System Setting

Silent Alarm

When set on (🔊 is displayed), siren and flash won't be activated in case of being attacked. The remote notices you the attack with beeps and icon. This is useful in anti-noise area or when seeking for an offender.

[Menu ⇨ System ⇨ Siren ⇨ Off]



Active/Passive Arming

You can select the arming mode.

Active Arming: After getting off the system will be automatically armed when all doors are closed.

Passive Arming: After getting off the system will be armed only if you lock the doors remotely.

[Menu ⇨ System ⇨ Arming Mode ⇨ Active]



Engine Runtime

You can select the (remote start) engine runtime among 3 min., 15 min. and 25 min.

[Menu ⇨ System ⇨ Engine Run ⇨ 15/25/3 min.]



Factory Setup

In case of malfunction or mishandling of the remote control, you can initialize it.

Be noted that the time will be re-set and the current time should be set newly.

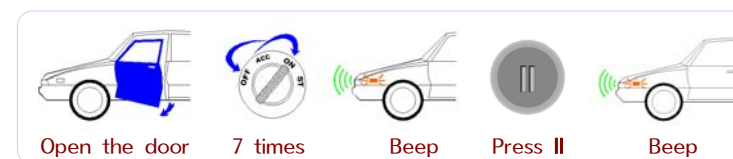
[Menu ⇨ System ⇨ Factory Setup ⇨ Default]



Technical Support

Learn Routine

The remote control is not taught to the system. So, you must input the code after the installation. This system will learn up to 3 remote controls.

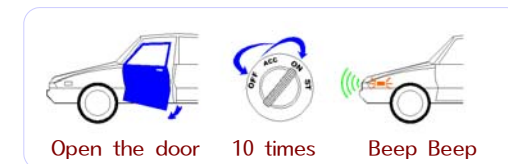


1. Open the door and turn the key to 'OFF'.
2. Turn the key to "ON and OFF" 7 times. (1 chirp)
3. Press button II within 5 sec. The code is saved with chirps.

✓ To input 2~3 remote controls press button II one after another.

System Initialization

If you have lost a remote or the system malfunctions without particular reason, it is strongly recommended to erase the current code to prevent your car from being stolen. In this case the system is initialized so that new remote should be coded again.



1. Open the door and turn the key to 'ON'.
2. Turn the key to "OFF and ON" 10 times. The system is initialized with 2 chirps.

✓ Turn the key 10 times through even if you hear chirps in between.


Technical Support

Valet Mode (Security Suspension)

In case of being valeted, missing remote or malfunctions, the security can be suspended.



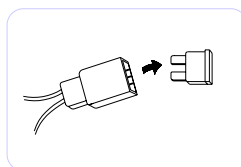
1. Open the door and put the key into the ignition.
2. Turn the key "ON and OFF" 7 times.
 - The security functions are suspended with a chirp.

 **To return to normalcy** see page 10 (using remote valet).

Power Shutoff (System Suspension)

In case of emergency (missing remote, malfunction or continuous siren) you can shutoff the power to suspend the whole system features.

1. Open the door.
2. Locate the brain unit.
3. Seek for the thickest 6 pin wire harness.
4. Select the **Red** and **Red/White** wires.
5. Find the black fuse-holder.
6. Pull out the fuse.



- Even if you suspend the system functions, you can drive your vehicle.
Please ask near dealer to get the services.

Appendix

Trouble-shooting

Problems?	Check this first!
Remote engine starting fails	Check the dome-light. → It should go on only when a door is open or ajar.
	For automatic transmission: check if the gearshift is in P or N position.
	For manual transmission: check the reservation (page 11).
Only lock and unlock work	Exit from the valet mode.
Remote doesn't work	→ 1. Press the reset button on the left. → 2. Disconnect the antenna and connect it again.
Display is frozen	→ Press the reset button on the left.
No display	Check the battery.
False alarm	Adjust the sensitivity of the shock sensor.
Lock and unlock irregularly	Check if the proximity on. Adjust the distance by turning the screw of the antenna. Remove the proximity.
System doesn't work	Check the main power fuse. If it's okay → the remote may be defect.



Appendix

Specification

- Frequency: 433MHz (or 447MHz or 449 MHz)
- RF Power: 5 mW
- System Power: DC 12V
- Battery: Lithium Polymer 3.7V

■ Plug-in Car Charger

- Input Power: DC 10V~24V
- Output Power: DC 4.2V, 800mA
- Green LED goes on when fully charged.
- Connector : Mini-USB 4pin A type

Authorized Installer

This product must be installed according to our installation instruction for normal operation. Hence, we strongly recommend that the installation be done by an authorized installer. We accept no liability for damage or loss resulting from improper installation of this product.



Warranty

We warrant to the ORIGINAL PURCHASER of this product that should any included siren, electronic module or transceiver under normal use and conditions, be proven defective in material DURING THE FIRST YEAR from the date of dispatch, such defect(s) will be repaired or replaced without charge for parts.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station. This warranty is valid for the original purchaser only and may not be transferred.

This Warranty does not cover batteries, nor extend to damage to vehicle electrical system. This Warranty does not apply to any product or part thereof which, in the opinion of A1Tech Inc., has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number.

Product	2-way Car Alarm System	Model	PROSTAR-Gold
Date		Serial No.	
Dealer		Options	
Car Model		Car No.	
Name		Name of the Installer	

A1Tech Inc.