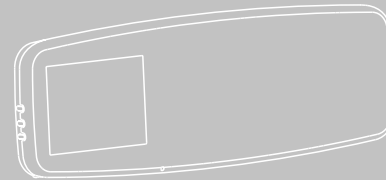


# User's Manual

## Global Positioning System

In-Car & Portable Navigation

## VISION



Welcome to use our product!

Thank you for buying our product, please read this manual carefully before usage; we suppose you have read this manual when you begin to operate our product.

Please check the information carefully to assure its accuracy. We will not afford any responsibility for the errors caused by printing or translating.

The copyright of this manual belongs to our company, It is not allowed to copy or translate the whole book or parts for business use, we reserved the right of final explanation.

Please read carefully the operation instructions in the manual, and use the original accessories from factory to keep away from any inconceivable damages. If you do not operate our product correctly as instructions in manual, or use other incompatible accessories, your guarantee will lose efficacy itself, what's more you and people around may be hurt during usage. We will not be responsible if such accidents happen.

Our GPS navigator is a high-tech product, it includes the operation system and software given by the third party. During both the process of hardware manufacture and R&D of software, manufacturer has done its duty to assure its ability to work normally in every aspects. Manufacturer will give service but will not afford any property loss or pecuniary loss caused using our products.

The map software are provided by the third party, which has the copyright of it, users can not copy it for other purposes except usage in our product.

Manufacturer does not give any guarantee explicitly or implicitly to the validity, veracity or completeness of map software, we will not afford any responsibility for the human hurt or property loss caused by the defects of map software.

The picture is for reference only, the actual item is the standard.

**Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment**

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.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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# 1.Notice

## 1.1 Information Instruction

The navigation system adopts the most advanced satellite navigation technology and detailed street map so it can direct you to the destination easily. In order to let you obtain the best capabilities of the new system, please read the instruction before operating.

Illustration



Warning

Warning

Users shall comply with the information provided in case of any threat to personal safety.



Caution

Caution

Users shall comply with the information provided in case of any damage to this device.



Tips

Tips

Additional information provided for user's reference.

Global Positioning System is launched and maintained by USA. This system can receive the satellite signals from Global Orientation System. Using these signals and vehicle inductor, the system can indicate current location and help you find required destinations.

This navigation system can select an economical route, which isn't always the shortest routes or jam-free. Generally speaking, the driver can reach the required destination faster with his local knowledge or shortcut rather than this system.

This navigation system can provide visual map and voice instruction. When you are at the crossing or near the turnoff, the device will remind you of the driving distance and direction.

## 1.2 Safety Information

using the system.

2. As the system will distract the drivers' attention, in order to keep safety and prevent from accidents, drivers shall not operate the system while driving.

3. Shall not only depend on the voice navigation which is only for reference. Because the roads circls, traffic signs and service information aren't always latest, drivers should update maps timely.

4. There are shortages of system data, for example, roads circls may change frequently; therefore, you must notice traffic circls before following the system information.

5. This navigation system is only used for assisting drivers to make a judgment, and may not measure any direction, distance, place, or landform precisely.

## 1.3 Safety Caution

In order to prevent users or others from injury or property loss, please read and follow the cautions in below:

1. Read instruction

2. Keep the instruction properly for later reference

3. Obey all operation instructions

4. Accessories

Don't use the accessories from another manufacturer, otherwise it may cause accidents.

5. Power

Please use the stated power. You must cut off the power and pull off the power plug in rainy days or when you won't use it for a long time.

6. Protect power cord

Make sure the power cord is out of feet touch.

7. Installation and wiring

In order to ensure safety, please consign professionals to carry out the installation and wiring.

8. Maintenance and parts change

Please consign professional technician to maintain and change.

9. Keep away from heat source

Please don't expose the device in sunshine or high temperature. Keep it away from heat, such as heating machine, heater or any other heating objects.

10. Keep away from water or damp place

Please don't expose this device in rainy or damp conditions.

11. Cleanness

Please wipe the device with dry and soft cloth after power-off, the volatile chemicals, such as gas or diluting agent.

12. Please cut off power and contact with technician immediately in the following conditions:

Liquid or particle enters into the device;

The device is damaged due to falling off from a high place or incorrect operation;

### 13. LCD

Prevent LCD from being crashed or fallen, don't touch the liquid flowing out of the device; don't heat LCD or scratch it.

## 1.4 Special Tips

### 1. Whether the positioning and use of GPS can be affected by the weather or anything else?

Yes, lightning, climate (overcast, rainy and cloudy) etc., all may affect the signals and use of GPS.

### 2. What factors may affect the signals of GPS?

1).SA satellite message is from DOD in USA. The precision of GPS signal is directly controlled by DOD in USA, in order to ensure security, the signal precision for civilian use is lower than that for army, so in some sensitive places, military base for example, the signals can be interfered and the precision of positioning may be reduced.

2).Weather factors (macula, bad weather may reduce the intensity of signals and result in instable orientation.)

3). Electric, electromagnetism, wireless wave and strong magnetic field all has different certain interference.

4).Under veils, such as buildings, cars, heat insulation papers, metal veils and trees, they all may reduce the signals of GPS, therefore, place the device close to the windshield.

### 3. Why does not GPS receive signals in buildings?

The signals can be obstructed easily by buildings and metals, and they can't penetrate through the wall of buildings, so the GPS can't be used in buildings.

### 4. Does the sun membrane affect the signals of GPS?

It will have certain effect on GPS when the material of sun membrane contains metal.

### 5. How long does the GPS take to position after power on?

About 1 minute the GPS begins to positioning if it is located in wide and non-interference places, less than or equal to 5 minutes is in accordance with the standard of GB/T 19392-2003-5.3.

### 6. What is the maximum navigation time? How long does it take to charge up?

Maximum navigation time: 3~4hrs with volume and brightness at 50%.

Time for charging: 3~3.5hrs under standby mode, the time will be different in different surroundings, the unit can also be charged when power on, but the time shall be longer, it is normal that the unit heat while charging.

### 7. What advantages of your GPS solution have?

It supports quick global positioning, stable signals, free of service, detailed map for each city, voice navigation for the whole journey, intelligent lay out the route, operation system of Microsoft windows CE.net, 3.5 inch TFT touch screen with 65k colors internal GPS and high capacity rechargeable LI-polymer battery.

### 8. Normally, how many satellites can GPS receiver capture?

Normally, most GPS receivers can capture 8-12 satellites.

### 9. Will the music be distorted if the volume is too high? Sometimes WMA files can not be played, why?

Please make sure whether the music is obtained legally? If not it must be of big noise. WMA files has copyright protecting, it needs to be decoded by decoding software during operation.

### 10. How to avoid device crashing at the moment of car starting up?

Users must note that do not connect the GPS with the linker until the car is started up.

## 2. Brief Introduction

### 2.1 Function Introduction

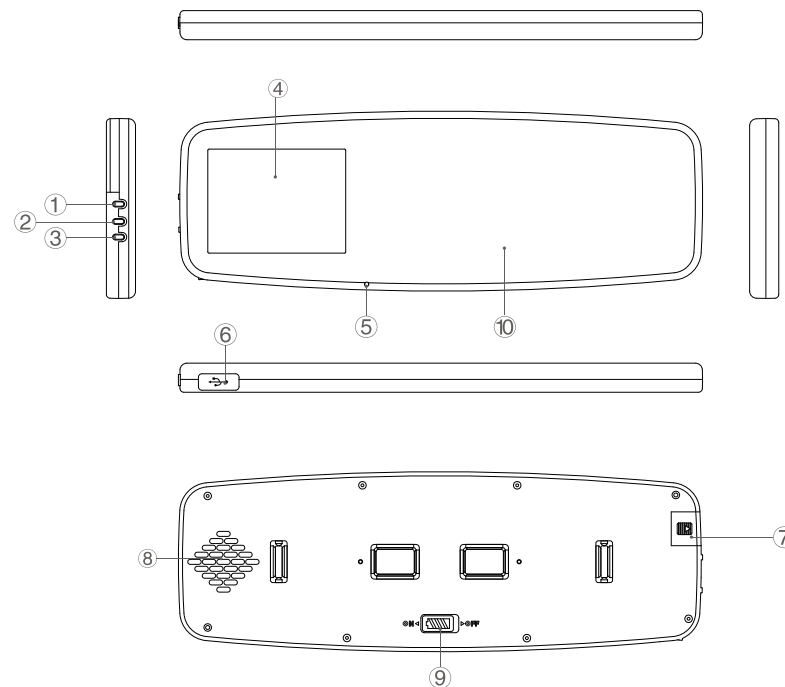
- >GPS Navigation
- >Bluetooth
- >TMC
- >AV IN
- >Support Micro SD card

### 2.2 Accessories

Before using, please make sure whether the device and accessories are complete, if there is any lack or damage please contact with the local dealer or agent as soon as possible.

- >PND 1pcs
- >USB Cable 1pcs
- >Car mount 1pcs
- >User Manual 1pcs

### 2.3 Illustration




1. Hot key, power indicator (Power supply controlled by vibration sensors)
2. Reset
3. Display on/off key, indicator (when Bluetooth working)
4. Display screen
5. Microphone
6. Mini USB hole
7. Micro SD card slot
8. Speaker
9. Battery switch
10. Mirror

## 3.Basic Operation

### 3.1 Battery and Charger

#### 1 Power Supply

In-vehicle/portable GPS navigation has two ways of power supply: battery supply and power supply.

When the device doesn't connect with the adaptor, it is supplied by the lithium battery. The icon  at the top right corner on the main interface of system indicates the current remaining power.

When the device connects with the adaptor, it is supplied by the outer power.



Tips

【Tips】 Under normal condition(volume and backlight at 50%), it can last about some hours after the battery is fully charged. Some functions need to consume a lot of battery energy, such as audio/Movie playing, high backlight and Bluetooth, which may

### 3.2 Basic Use

#### 1 Reset Key

When the system halted or in the following cases, press reset key to reboot the system:

1. There are delay and stagnation during switch interface;
2. There is no response when click the icons.
3. Power key is unavailable.



Caution

【Caution】 Please backup the data before resetting the system.

#### 2 Car Mount

The car mount consists of salver and bracket. While using the device in car the device should be fixed in the proper position of fore-windshield.

#### 3 Micro SD Memory Card

Correctly insert SD/SDHC/MMC card into the slot, and do not remove the SD/SDHC/MMC card during operation.

### 3.3 Connection with Computer

Connect the device with computer by the USB cable. One end connects with PC and the other end connects with the device.

1. Data transmission: There are two new "mobile disk" icons in "my computer" after the device is successfully connected with computer, the first icon stands for the built-in flash memory of the device, the second stands for the SD card storage of the device. (If the SD card is not inserted, the second icon of the disk is unavailable). Then, you can use them as normal USB flash disk.



Caution

【Caution】 1. Please do not delete and revise the data in the built-in flash memory of the device, in case some functions of the device are out of work. 2. Based on Windows 98 operation system, please install the driver before operating the device. The operation of communication between GPS and computer are exemplated based on the Windows 98 operation system or above version. 3.When GPS is connecting with computer by USB line, it can not operate the current functions.

2.Safely Remove: Please remove the USB line after finishing the data transmission (just operate it as the USB flash disk).

## 4.Hot key



Screen rotate 180 degree.



Enter to screen saver, click to screen and then return to window.



Enter to setting interface.



Enter to Bluetooth setting.



Change from internal speaker to external speaker.



## 5.Function operation

The device supports navigation and Bluetooth for hands-free and system setting functions. The main interface is as follows:



### 5.1 Navigation

#### The Features of Navigation


The device adopts intelligent navigation system, which uses GPS satellite signal receiver to positioning the mobile vehicle precisely and displayed the mobile vehicle's location on the E-map. The system will automatically calculate the best route when users set the destination, it will help the users reach their destinations safely and quickly.

The system also can provide the functions of visual maps, instant cartoon, voice and instruction and so on.


### 5.2 Bluetooth

Press "Bluetooth" to enter the menu of Bluetooth.



【Tips】 when the icon  at the left corner of interface shows red, it means the Bluetooth is not connected, if it shows green, it means the Bluetooth has been connected.

#### 1 Bluetooth pair

Click the  icon to enter into the equipment pair interface. Before using Bluetooth, it should be matched. Click the icon to enter into the pair waiting interface, and then use mobile phone to search for Bluetooth equipment, after finding out the Bluetooth equipment, input a pair password in mobile phone, the password can be found in the pair password setting interface. If connect successfully, "Pair Success" will appear on the screen, or the interface will go back to main interface after 60 seconds.



Return :Return to previous menu  
Displaying area :for searching time



#### 【Tips】

1. Bluetooth of mobile phone should be opened at the same time.

## 2 Dial Function

Click the icon  to open the dial key.



Return :Return to Bluetooth interface



+ : Volume



- : Volume



Dial key: Click it before calling



Hung-up key: Click it after calling



Back space key: Delete the last number of inputted phone code



Number keyboard: Input number



Number display area: The current called number



## 3 Call record

Click the icon "Call Record" to open call log.



Return to previous menu



Check dialled numbers



Check received calls



Check missed calls



Check previous record



Check next record



Dial the chose number or switch into dialing key



Delete the chose records



Delete all records



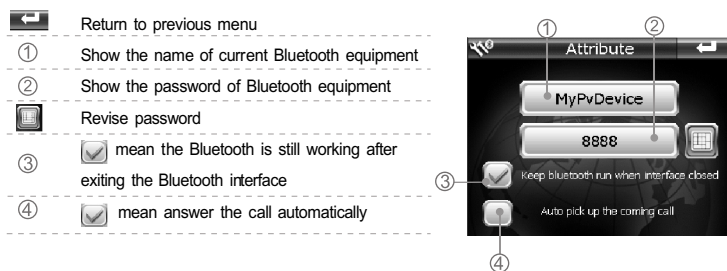
Record of calls

#### 4 Dial-last

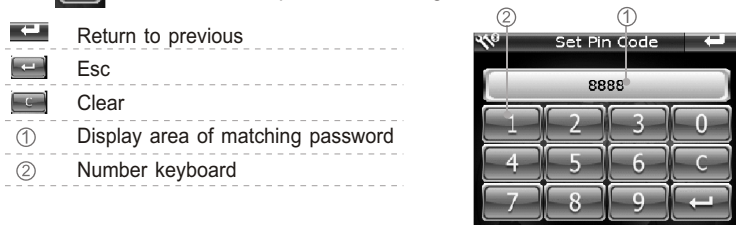
Click the "Dial-last" icon, it will switch into the last dialed call automatically. After entering into this interface, please operate other function according to 5.2.2

#### 5 Bluetooth password

Click "Attribute" icon to enter into the interface of password setting.

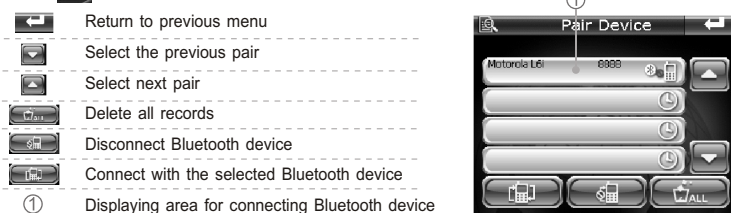


Click  to enter into the password setting interface.



#### 6 Bluetooth connection

Click  icon to enter Bluetooth connection record.







#### 5.3 System Setting

Click "Setting" icon on the main interface to set your system, including volume, power, Backlight, Date time, language, system information.

##### 1 Adjust the volume

Click the "Volume" icon to enter the related interface

Users can click  and  on the screen to adjust the volume, by clicking  and  on the screen which is in front of "Enable sounds for taps" to decide whether the screen makes a sound or not.

##### 2 Power

Click "power" icon to enter the battery level interface.

##### 3 Backlight Setting

Click "Backlight" to enter backlight setting interface.

Day time backlight setting , set day time started at XX:XX by 

Night time backlight setting , set night time started at XX:XX by 

user can adjust the backlight by



The end user can press the sun or moon touch icon to set the morning and night model priority.

##### 4 Date Time Setting

Click "Date Time" to enter date time setting interface. Status bar will show the current separately time, date and time zone.

Separately click "Time", "Date", "Zone" to set up the time, date and time zone.

Through the GPS signals, the time setting refreshes the current time automatically, it means that the time will temporarily return to the factory setting time after the system reset. As soon as the GPS begins to navigate, the time will renew to the standard time. Please note that the time setting should be compatible with the local time.

##### 5 Language setting

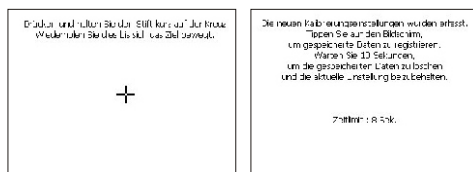
Click "Language" icon to set the language you need.



## 6 System Information

Click "Sys Info." icon to view the detailed system information.

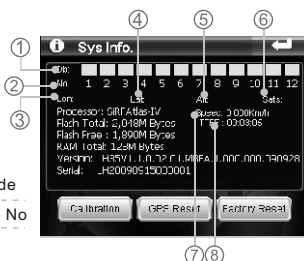
1. Click "Calibration" icon at the left corner of information box to adjust the touch screen. Choose to move the cursor through middle, left, right, up,down steps.Repeat click the middle of cursor until the calibration is successful.



2. Click "Factory Reset" icon at the right corner of information box, the system will automatically return to the factory setting.

3. Click "GPS Reset" icon in the middle of information box, the system will automatically clear up the Signal-to-Noise data received.

- ① Signal-to-Noise data    ② Channel    ③ Longitude  
④ Latitude    ⑤ Altitude    ⑥ Satellite No  
⑦ Speed    ⑧ Positioning time



Tips

### 【Tips】

When you enter this interface to search for GPS signal, if you find the searching speed is slow or you can not get signal after a long time, please click on the "GPS Reset" key to refresh GPS signal.

## 6.Malfunction Analysis

If the device does not work smoothly, please inspect it according to the following method. If problems still exist, please connect our Service Centre timely.

Problem	Reason	Method
Can not power on	Low power	Charge the battery
Power off suddenly	Low power	Charge the battery
Touch screen deflected	Calibration is not precise.	Refer to 4.6.6 to calibrate your touch screen.
No sound when playing	Tool low volume	Turn on the volume
Can't connect with PC	Poor connection of the USB cable	Refer to the 2.3 chapter, connect the USB cable well.
Can not charge	Power cable is not connect well	Please check cable, make sure the polarity is right
Touch screen and display abnormal	The system crashes	Press the reset key
Can not receive GPS signal	Depending on the intensity of the local signals. It will take about 1 minute to receive the signal.	
Map data missing	Copy the map data into the SD card again. Contact with local retailer or distributor. You need to enter the activated password when you use the device again.	

## 7. Technical Specification

Dimension	270*93*15mm	
Net Weight	About 340g	
System	OS	Windows CE6.0
	CPU Frequency	SiRFAtlas IV, CPU 500MHz, RAM11; DSP 250MHz.
	DDR	128MB DDR 16-bit data@266MHz
	NAND Flash	SLC:64MB-512MB MLC:1GB-4GB
	External Memory	MAX 8G Micro SD
Languages	Multi-languages	English, Italian, French, Spanish, German, Portuguese, Dutch, Russian, Polish, Hungarian, Serbian, Romanian. More languages can be added, as request)
Power supply	Car power supply	The power supply controlled by the vibration sensors. The power cable should be connected with car battery, Voltage:input DC 12V~24V
	Battery	3.7V /1600mAH
	Navigation time	2.5~3.5 hours with 50% volume and backlight.
Display	Picture	Picture rotation 180°(by software), screen is on left side default
	Specification	3.5 TFT in rearview mirror, capacitive screen
	Pixel	320*240 (RGB), 65K colors
GPS Module	Frequency	1575.42MHz
	Channels	64 channels
	Sensitivity	-161dBm
	Precision	Position: < 10 meters
	Start-up time	Hot start: ≤3 sec, average
		Warm start: ≤38 sec, average
		Cold start: ≤45 sec, average
	Refreshing rate	1/second
	Port	COM7
TMC	External TMC function	Optional
Bluetooth	Built-in bluetooth	Bluetooth V2.0, handfree mobile phone+vanish echo
Version update	Map	Update the map data in SD card
AVIN	Movie format	CVBS(PAL&NTSC)
	Input impedance	75Ω
	Input voltage	1.5Vpp
	Audio format	Analog Signal
Temperature	Operation Temperature	-10°C~55°C
	Storage Temperature	-20°C~70°C Short-term storage: -25°C~75°C,
USB	USB 2.0 high speed	