App-Tronics Smart Nav

SmartNav 4.3
— User's Manual —

C E

Welcome to SmartNav GPS. Please read this user's manual carefully to become familiar with all the operation details and to ensure you use your device as it was designed. Before getting started, please note the following:

- Specifications are subject to change without notice.

- Please make a copy of the important data.

- Please read the operating instruction carefully and use only accessories provided by the original manufacturer to avoid any unexpected damage. No warranty will be executed if you are not following the instructions or are connecting with incompatible accessories. We assume no responsibility for any loss or damage caused hereby.

- The electronic navigation data may be not in conformity with the actual road markings due to traffic construction development. Please be sure to comply with actual road conditions and follow the traffic rules.

- Operating and viewing the GPS while driving may cause a severe traffic accident. App-Tronics is not responsible for any loss caused by an unexpected accident.

- Users can update and upgrade software by visiting www.app-tronics.com

- The screens shown in this guide may be different than the ones you see on your device, depending on the firmware version.

GPS Navigation, Speed Radar Dectecting, Video Recording, Parking Camera, Parking Sensors, Bluetooth, Entertainment

CONTENTS

Welcome

Thanks for using the device. With navigation as the major function, it supports GPS Navigation, Speed Radar Dectecting, Video Recording, Parking Camera, Parking Sensors, Bluetooth, Entertainment.

You may use the GPS navigator anytime anywhere, for example while driving, walking or cycling. Its navigation and amusement functions will enrich your life and work!

To fully exert the functions of the device and to understand the operation details, please read the manual carefully.

You may see the following supplemental information in the manual.

[Note]: Explanation of relevant subjects

[Relevant Information]: Extra information of relevant subjects

[Attention]: Precautions or warnings of relevant subjects. Please pay attention to this information and follow the instructions to avoid devastating influence on yourself and others.
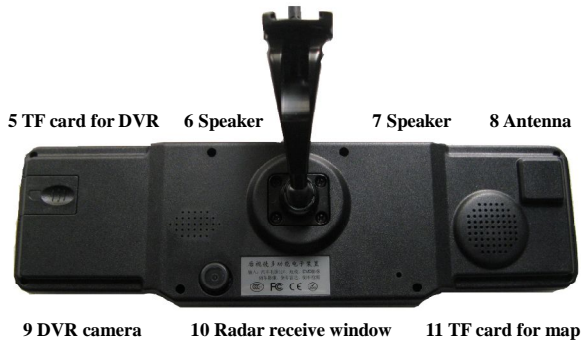
[*]: Optional function

Chapter I Beginning Use

This chapter introduces the appearance, components and basic operations of the device.

1.1 Appearance

The effect figure below is subject to the material object.

5 TF card for DVR   **6 Speaker**   **7 Speaker**   **8 Antenna**

9 DVR camera   **10 Radar receive window**   **11 TF card for map**

SN	Component	Explanation
1	LCD with Touch panel	The touch pannel is capacitive
2	Cable Slot	Vcc, GND,Video in, Parking Power, and Reversed
3	Mounting bracket	Fixed the mirror device
4	Sensitive Buttons 8 buttons.	⏻: Long push to power on/off . □: Switch displaying M , ● , 🔓 , ▶ , ▲ , ▼ :Used in recording video, please view 1.7.2.
5	TF card	Maps,video,music. Up to 32GB.
6	Speaker	Playing sounds
7	Speaker	Playing sounds
8	GPS antenna	Built_in GPS antenna
9	Camera	Megapixels camera for recording traffic video

10	Detecting windows	Receive and detecting the signal from the speed radar
11	Storage card	TF card, record video, support up to 32GB.

1.2 Installation

The following steps must be opereted by professional technicians of the vehicle.

Step 1: Remove the original rearview mirror of the car matching from the front windshield; and then follow the reverse steps to properly install this product. Different models are supported by the rear-view mirror bracket,the following picture only show Honda cars.

Remove original mount from the base

Install new mount to the base
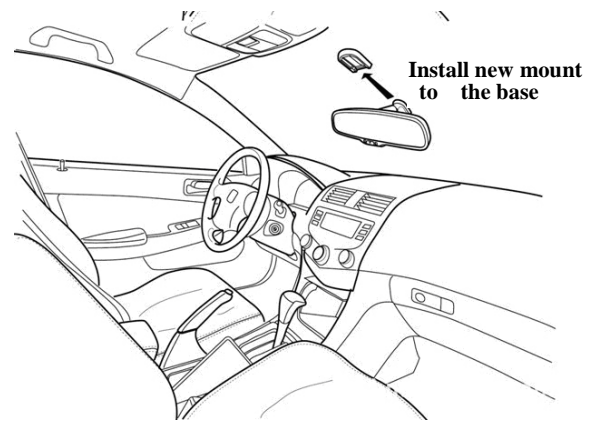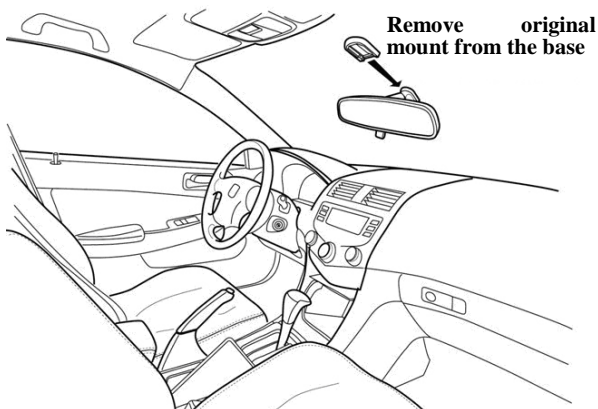
Step 2: Find out the ACC power connector. Most of the vehicles fuse box is basically installed in the following three positions:

1, The plaque , which is in the car hood on the driver's side.

2, The glove box, which is in front of Vice driver's seat.

3, The co-pilot air conditioning vent of the front foot

In this process, it is important to note that the cut don't fully grasp the situation, don,t make pull the fuse that would make unnecessary trouble - mistakenly lit the light of the failure of the vehicle (above operation by professional automotive technician or experience of the owners of operations, such as human errors cause this product to any failure, are excluded from the warranty
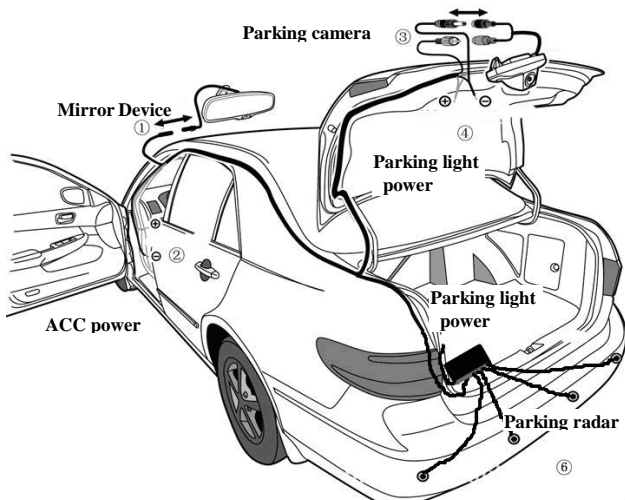
category).

Step 3: Connecting cables on the front:

1, The power supply line (red line) is connectted to the ACC long power.

2, The negative wire (black line) is connectted to the public side of the fuse box, or closely connected to any metal parts in the body.

3, The reversing the signal line (blue line) is connectted to insurance box reversing power fuse.

To ensure that wiring is correct, you can power on the car, if the rear-view mirror button backlight light, it means you have the correct wiring.

Step 4: Alignment the line:

All of the electrical connector with insulating black tape tied to prevent a short circuit or accidental loosening. Followed by demolition of interior parts: first remove the rubber seal, clawed through the roof and A-pillar trim, and then wire buried. Then has been good to connect the wires from the fuse box behind the leads into the A-pillar sealing strips along the body and then received through the roof in the windshield above the rearview mirror on. The same color cable sleeve or insulating tape wrapped. Finally, the trough will be sticking out of the harness buckle.

Red line to ACC 12v
Black line to GND
Blue line to parking light 12V
Yellow RCA to parking camera
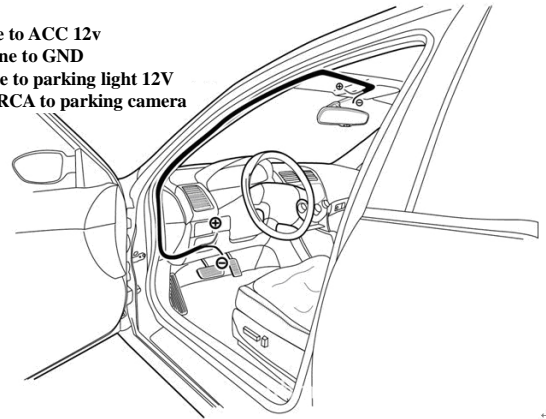
Step 5: Install the parking camera:

1) to find the install universal camera (or the appropriate location of the car with a special camera), if the punch camera camera insert hole saw hole after a fixed, if it is with butterfly screws.

2) directly from the reversing headlight lead, camera power supply line along the car taillight line placement, and tied with cable ties, parallel supply line (red positive, black negative) on the reversing light. Note that the distinction between positive and negative.

3) Carefully adjust the allowed reversing horizons to achieve the best results.

Step 6: Install the parking sensors:

1) the probe horizontally mounted in the appropriate hole on the installation location, the best height of 50 to 60 cm, the spacing of the probe according to the number and installation location of the horizontal width.

2) reversing radar power supply line (red positive, black negative) in parallel with the reversing lights on.

3) Start the car and hang into the reverse parking sensor into operation, the car slowly retrogression to move in a certain object, the system will be able to detect and display the object distance, otherwise check the probe installed correctly.

Parking camera ③
Mirror Device ①
④
Parking light power
ACC power ②
Parking light power
Parking radar ⑥

1.3 Basic Use

1.3.1 Powering on/off

The device can automatically run when the car is start.

Press the power key for at least two seconds can power it on or off.

1.3.2 Restarting the System

When the system does not response, also can press the power key to restart the system.

[Relevant Information] The following situations might lead to no response of the system.

1. Delay or stagnancy in interface switching;

2. Failure of function activation with overlong execution;

1.3.3 Using T-FLASH Card

Copy mapping applications, map data and media files in a T-FLASH card. Insert the card in the corresponding slot.

[Note]

1. Do not take out the T-FLASH card while an navigation program is being run or a media file is being played.

2. To avoid drop or crash of the T-FLASH card, do not exert heavy pressure on it or bend it.

3. Avoid using or storing the T-FLASH card in high temperature, high humidity or direct sunlight. Keep the card away from liquid or corrosive substance.

4. Mind the direction while inserting the T-FLASH card to avoid damaging the slot or the card.

1.4 System Main Interface and Major Functions

When power on the device, it will enter the system main interface shown below.

The main functions are listed as below.

Function	Explanation
Navigation	Tap to enable navigation and detecting radar function
Radar alarm	Support X, K, KA,KU, New K, Laser band.
Video recorder	Support HD 720P video recording, built_in million pixel camera.
Parking system	Support the reversing camera and parking sensors input, display the image and distance on the screen
Music player	WMA9 and WAV files supported; Random, sequence and cycle play supported
Movie player	WMV, ASF and AVI files supported; Adjustment of playing progress, pause and full-screen play supported
E-book	TXT files reading supporting page selection
Flash	SWF files supported;
Wallpaper	Set Desktop Wallpaper
FM	FM channel to adjust the power
Calculator	Units can be calculated

Unit	The unit conversion
Gps info	Recorded signal
Theme	Theme settings
Photo browser	JPG，GIF，BMP and PNG files supported; Photo rotation, zoom in/out and auto play supported
Explorer	Go to the desktop
Gobang	Gobang games
BoxMan	BoxMan games
Snake	Snake games
Nav path	Navigation path specified
Volume	Set Volume
Backlight	Set backlight brightness
Language	Set Language
Datetime	Time and date settings
Factoty	Factoty
Sys info	Check the latest information
Bluetooth	Bluetooth setup operation

1.5 Parking sensors *

Please view in the user manual of Parking sensors.

1.6 Parking camera*

After the device runs on, it can display the reversing image When the car hanging into reverse. Click the upper left

corner of your display can flip the image, click on the screen the lower right corner to the upside down image.

1.7 Digital video recording*

When the device run on, the system also auto start to recording video. The default display screen is WINCE. Tap

□ to switch displaying wince and recording video. Click

the upper left corner of your display can flip the image, click on the screen the lower right corner to the upside down image.

1.7.1 Features

High-definition: Video Size can be set to high-definition HD 720P (1280x720/30FPS) or VGA (640x480/30FPS,).

Continuous recording without interruption: The proprietary file format to reach without a break, do not reveal seconds continuous recording, and ensure not to miss any important scenes.

Automatic cycle coverage: When the memory card is full, it will automatically overwrite the first image to start replication of new video clips.

Lock important moment in the video: encountered a critical moment, press the latch button from the image within 60 seconds after pressing the moment of the first 60 seconds and will be locked preserved and not be

overwritten.

Easy to use: do not need complex setting, used for the first just want to date and time set, and then start the engine automatically recording, stop recording after shutdown.

Playback function: the movie itself has a display, you can preview the video screen and playback video clips.

MJPG video format: each screen in the film are independent and complete real images, not H.264 or MPEG4 predict calculated from the screen, you can provide evidence of the most convincing image.

Voice: support recording and playback.

Storage media: requires the use of high-speed TF card, support for 4 ~ 32GB, video uses a proprietary file format, please SQPlayer or native formatted to use the memory card before use, and can not be used if there is no formatting.

1.7.2 Buttons define

There are two mode: Record mode and Playback mode.

Button	Define	Record Mode		Playback Mode		
		Recording	In Menu	Single Show	In video Playing	In Menu
●	REC	/	/	Stop Playback &Back	Stop Playback &Back to Video Rec	/

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				to Video Rec		
M	MENU	Stop Record & Enter Menu	Save & Exit Menu	Enter Menu	Stop Playback & Enter Menu	Save &Exit Menu,Back to Single show
🔒	LOCK	Lock video clip	/	Unlock	Unlock	/
▶	PLAY	Stop Record &Enter Playback mode	OK**	Start to playback video clip	Pause/Continue video playback	OK*
▲	UP	Audio Rec On/Off	Up	Previous clip*	Go to play previus clip	Up
▼	DOWM	LCD On/Off	Down	Next clup*	Go to play next clip	Down

*: Now,if don't release the button, it will go to previous or next untill release the button.

**: When setting date or time, UP and DOWN can add/sub the value. PLAY can swith to next group,the order is Year, Month, Day, Hour, Minute,Second. When it is Second, click PLAY can save the setting and return tu the main menu.

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/: No action.

1.7.3 Locked key explaination

The system has kept 1GB room for locked video. It allow the users locked the video more than 3 times. When the locked button has been pushed, the system will auto storage 60 seconds previous and 60 seconds next 720P image(or 120seconds VGA) to the room. These video data cann't be replaced. When the locked room is full, user can unlocked the old one in playback mode or through Sqplay tool.

1.7.4 Menu item define

Main Menu	Sub Menu	Description
Video Size	640 x 480	Set the video size
	1280 x 720	
Time Setup	YYYY/MM/DD	Set date and time
	HH:MM:SS	
Format	Yes	Format the TF card
	No	
TV Out	NTSC	Set the fomat of TV out
	PAL	
Audio Record	On	Set for recording audio
	Off	
Language	English	Set the language

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		for menu
Frequency	50Hz	Set the frequency of video
	60Hz	

1.7.5 System error message define

Error Message	Description	Solution
No Card	Dectect no card	Push in a card
Card Protected	Card is protected	Unlock and push in
Card Error	Error occur when reading or writingthecard	Replace a new one
Card size too small	Size is smaller than 4GB,so cann't record	Please use 4GB or larger
Card not formatted	Card is not formatted yet,so cann't record	Formot it firstly
Card size changed	Card size is changed,so cann't record	Please backup the data and format it.
Sensor FAIL	Sensor Initialize an exception occurs,so cann't record	Return to repair
Protec slot full	There is no room for more locked video	Unlock some in playback mode
No Video	No video	Just to record

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1.8 Speed radar detecting*

Please ensure that there are no other obstacles (except the windshield) on the front of the radar receiver window.User can set parameters of the radar alarming on the setting screen. the software has built in the memory card (or local memory).If user use the replacementmemory card,please contact your dealer to authorize a new memory card ID to use. Before use the new version please operate that: Enter the route of \menu \ Settings \ navigation path, select the \ SDMMC \ P43_2 \ P43_2.EXE, double-click to save the path and exit.

Chapter II GPS

Various navigation mapping applications can be installed in the GPS navigator, which position the navigator via the satellite receiver and display it on the map. Set a destination, and the system will automatically work out the best path to help the user reach the destination safely and quickly.

2.1 Map

Due to transportation development, inconformity between products and real traffic information will occur a period after product release. Please drive according to road condition and abide by traffic regulations.

2.2 Navigation with Speed Radar Alarm

Tap [Navigation icon] to enable navigation and detecting radar function.

Tap [Add Location icon] to add current position as a alarm camera location, you can choose which the type of the alarm camera is in the next windows.
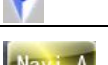
Tap [Del Location icon] to delete the current position from the alarm location list.

Tap [Navigation icon] to enter navigation map. Navigation paths are for reference only, and the user may decide whether to follow them.

Tap [Setting icon] to enter the setting menu, and set the value for speed radar detecting funtion.

Name	Icon	Explanation
Traffic Lighting	[icon]	Traffice light Alarm on/ off
Camera Alarm	[icon]	Camera Alarm on/ off
Spot	[icon]	Display alarm tips on the upper left corner
	[icon]	Display alarm tips on the upper rightcorner
	[icon]	Display alarm tips on the lower left corner
	[icon]	Display alarm tips on the lower right corner

	Preview	Preview
Speed of Silence	0 km/h	When car speed is smallar than the value, The alarm does not prompt
	▲	Add the speed value
	▼	Sub the speed value
Navi A	Navi A	Select A as current excutived navi program, Navi A will display on title bar.
Navi B	Navi B	Select B as current excutived navi program, Navi A will display on title bar.
Navi C	Navi C	Select B as current excutived navi program, Navi A will display on title bar.
Paths	🔍	Specify the path of navigation A, B, and C
Volume		Volume discrease
		Volume increase

Tap 🔍 to set the navigation paths for A, B or C.
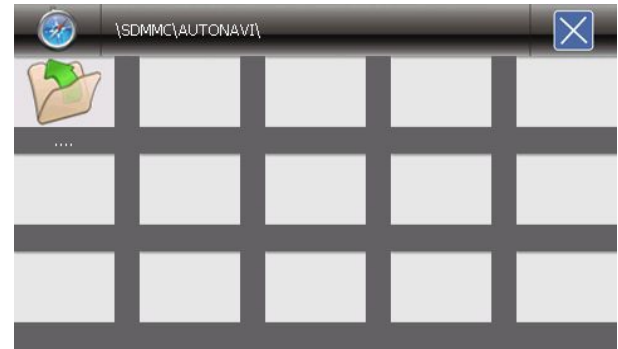
2.3 Reception

High and crowded structures (such as inside of tunnels, space between high buildings, underground car parks and under viaducts), weather change or satellite signals turnoff may influence signal reception, resulting in positioning failure, inaccurate positioning, navigation failure or system function abnormity.

With stereoscopic maps, instant animation, voice prompt and text prompt of the navigation system, you will appreciate its unique charm and enjoy a great trip.

Different navigation maps may have different operation methods. Please follow instructions of corresponding navigation mapping applications.

[Note] Before using the GPS navigator, please purchase and install mapping applications and appoint file paths. For setting methods please refer to *2.2 Setting Navigation Path*.

Chapter III Interface and Operation

3.1 Music Player

Tap Music in the system main interface to enter the **music** interface as shown below.

Icon	Name	Explanation
⏻	Close	Close the music player.

	Minimize	Minimize the music player and return to the **Media** interface.
▶	Play	Continue playing the paused/ stopped music.
⏸	Pause	Pause the music being played.
⏹	Stop	Stop the music being played.
🔁	Set play sequence	Select sequence, random or cycle play.
◀	Previous	Play the previous music.
▶	Next	Play the next music.
	Volume	Drag it leftward to turn down or rightward to turn up the volume.
	Progress	Drag it leftward or rightward to play from a previous or future moment.
☰	Music list	Enter it to select music to play.
01:51	Time	Display the run time.
	Equalizer	Enter the equalizer.

Tap 🔳 in the interface **Music Play** to enter the **Music list** shown as below.

Music List

snowman.Wma		1.the twist of the rope
casablanca.wma		2.Thriller-Michael Jackson
Flight Of The Wild Geese...		3.BlackRose
John of the glen.wma		4.snowman
the twist of the rope.wma		5.John of the glen
banty girls lament.wma		
BlackRose.wma		

Icon	Name	Explanation
⏻	Close	Close the **Music List**
	Scroll bar	Drag it upward/ downward to view all music.
	Add one	Add a piece of music on the left list to the play list on the right.
	Add all	Add all the music on the left list to the play list on the right.
	Delete one	Select one piece of music in the play list and tap the icon to delete it.
	Delete all	Delete all the music in the play list.

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	Progress	Drag the sliding block leftward to play from a previous moment or rightward coming moment.
	Volume	Drag it leftward to turn down or rightward to turn up the volume.
00:00:00/00:00:30	Time	Display the play time and the music duration.

Tap 🔳 in the **Video Player** interface to enter the video folder shown as below.

\SDMMC

Can anyone ...	QXXS.WMV	Savage Gard...	Savage Gard...
TAKE AWAY ...	theleeevanst...	trunkmonkey...	trunkmonkey...
trunkmonkey...	VideoPhone...		
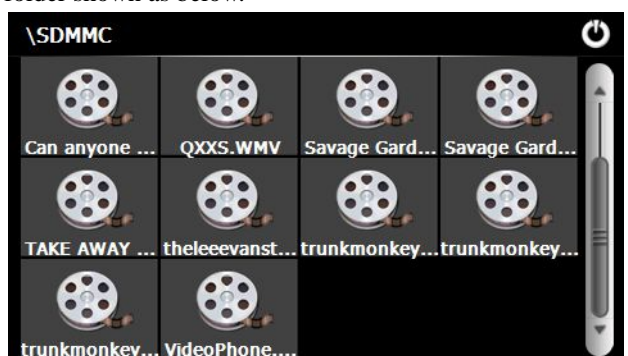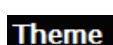
Icon	Name	Explanation
⏻	Close	Close the video folder.

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3.2 Movie Player

Tap 🎬 in the video player interface shown as below.、

Icon	Name	Explanation
✕	Close	Close the video player.
◀	Previous film	Play the previous film.
▶	Play	Continue playing the paused/ stopped music.
▶	Next film	Play the next film.
■	Stop	Stop the film being played.
▤	Video folder	Enter it to select a film to play.

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	Scroll bar	Drag the sliding block upward/ downward to view all the files inside the folder.
QXXS.WMV	Film name& format	Film name and its format

3.4 E-book Reader

Tap EBook in the **Media** interface to enter the reader interface shown as below.

BOOK3.TXT

He had stopped his pacing, his eyes moving over Ron.

"Do you think I could have a look at the rat?" he said evenly.

"What?" said Ron. "What's Scabbers got to do with it?"

464/583

Icon	Name	Explanation
FUCHEN.TXT	File name& format	Current file name and format.
⏻	Close	Close the reader.

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	Scroll bar	Drag the sliding block upward/ downward to view all content of the e-book.
	Folder	Enter the e-book folder to select an e-book to read.
	Previous	Read the previous page.
	Next	Read the next page.
	Setting	Select a text theme, font, word size and bold type.
	New bookmark	Select partial text and tap the icon to create a bookmark.
	Bookmark list	Enter the bookmark list to select or delete a bookmark.
1/305	Page/ total pages	Current page/ total pages

Tap [icon] in the e-book reader interface to enter the setting interface shown as below.
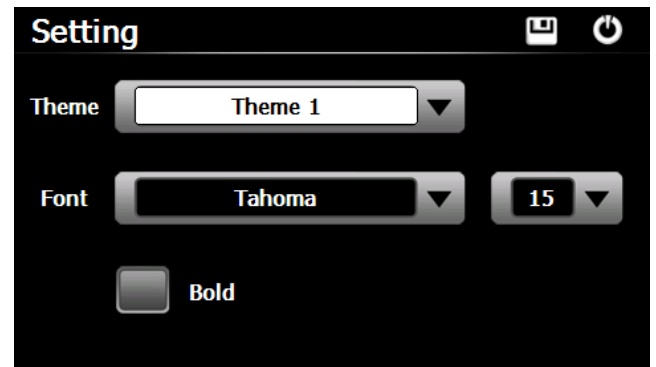
Setting

Icon	Name	Explanation
	Close	Exit the setting interface
	Save	Save the setting.
Theme	Theme	Tap ▼ to select a theme for the e-book.
Font	Font	Tap ▼ to select a font for the e-book.
Bold	Bold	Tap to enable bold type. Tap it again to cancel.

Tap [icon] in the e-book reader interface to enter the e-book folder shown as below.

\SDMMC
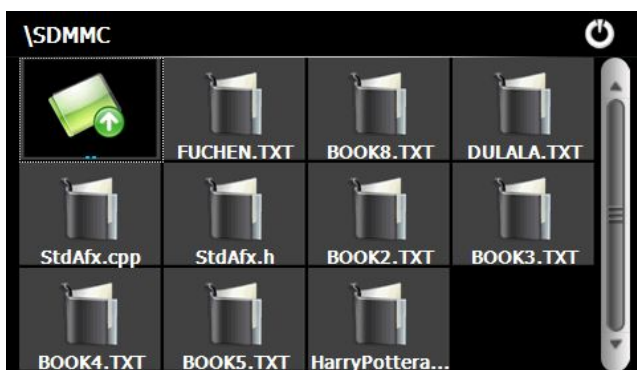
Icon	Name	Explanation
	Close	Close current folder.
	Return	Return to the previous folder.
	Scroll bar	Drag the sliding block upward/ downward to view all TXT files.
FUCHEN.TXT	File name& format	The file name and format.

To create a bookmark, locate a page by taping [icon] or [icon] or dragging the scroll bar in the reader interface and drag to select text content. Tap [icon] when it is on. Tap **OK** to finish.

Tap [icon] to view created bookmarks in the interface of **Bookmark List** shown as below.

Bookmark List

1. u think I could have a look at the rat?" he said evenly. 79%
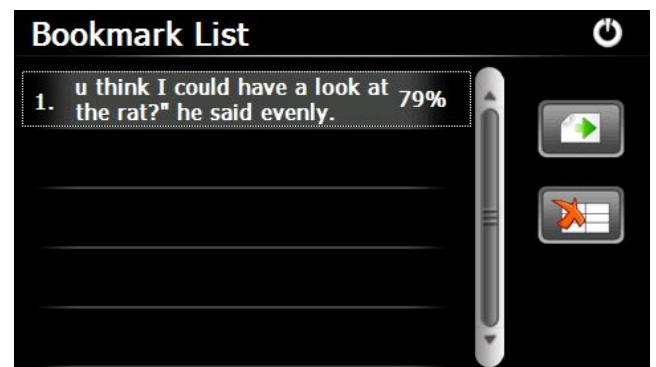
Drag the scroll bar and select a bookmark on the left list. Tap [icon] to go to the page with the bookmark or tap [icon] to delete the bookmark.

3.5 Flash player

Tap [icon] in the Flash player interface shown as below.

3.6 Wallpaper

Tap in the Wallpaper interface shown as below.

3.8 FM

Tap in the FM interface shown as below.

|	Close	Exit the FM Setting.
	Save	Save current setting.
	Use FM	Tick in the box to enable FM function.
	Frequency	Drag the slide block rightward (or tap) to increase the frequency and leftward (or tap) to reduce the frequency. The frequency range is 88.00 Mhz-108.00 Mhz.

3.9 Calculator

Tap in the Calculator interface shown as below.

3.10 Unit

Tap in the Unit interface shown as below.
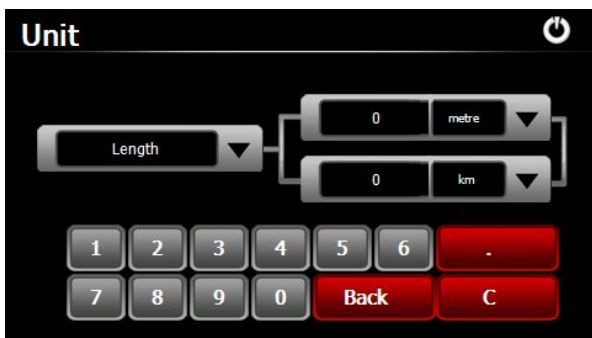
3.12 GPS info

Tap in the GPS info interface shown as below.
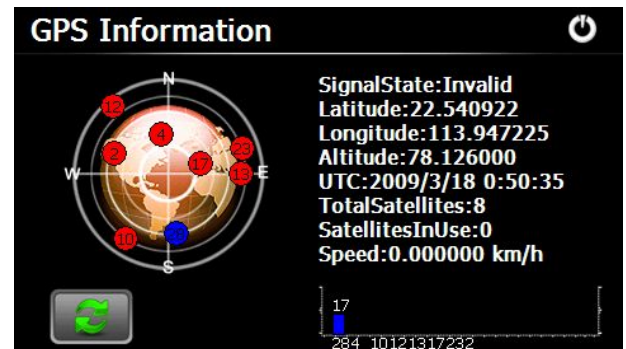
Tap to prompt a dialog as below.
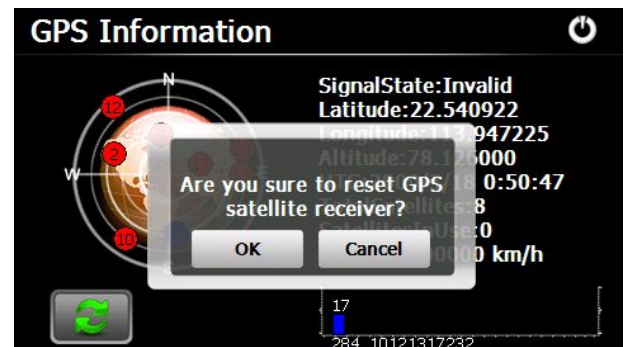
Tap **OK** to reset the GPS satellite or tap **Cancel** to exit.

3.13 Theme

Tap [Theme] in the Theme interface shown as below.
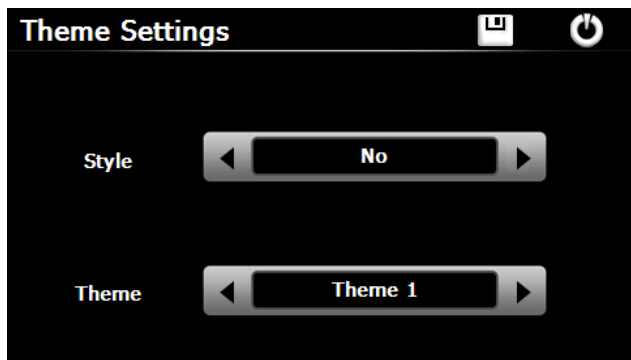
3.14 Photo Browser

Tap [Photo] in the photo browser interface shown as below.

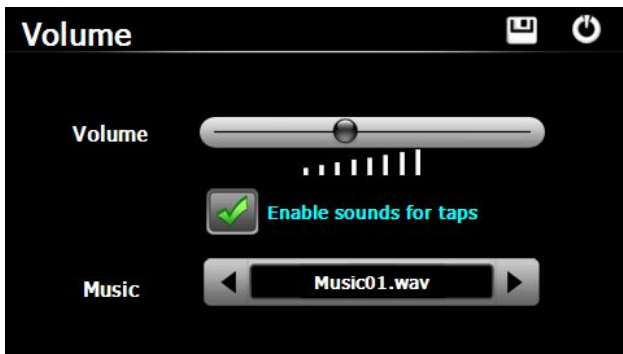| Icon	Name	Explanation
	Previous	View the preview photo in the folder.
	Next	View the next photo in the folder.
	Zoom in	Scale up current photo.
	Zoom out	Scale down current photo.
	Rotate	Rotate current photo 90°clockwise.
	Auto play	Cycle play all the photos in the folder from current photo.
	Folder	Enter the photo folder to select a photo.
	Close	Close the browser and return to the **Media** interface.

Tap in the browser interface to enter the photo folder shown as below.
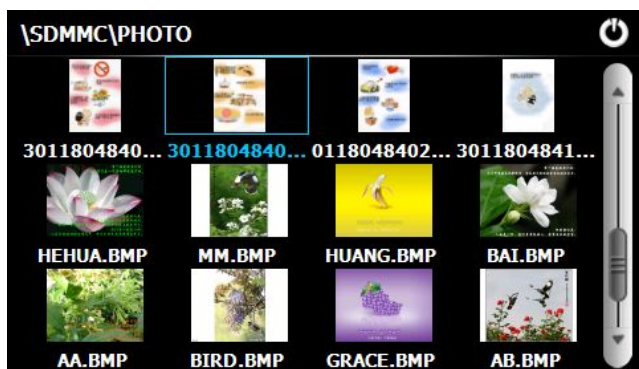
Icon	Name	Explanation
	Close	Close the current folder.
	Return	Return to the previous folder.
	Scroll bar	Drag the sliding block to view all the photos.

3.15 Explore

Tap [explorer] in the Explore interface shown as below.

3.16 Gobang

Tap [Gobang] in the Gobang interface shown as below.
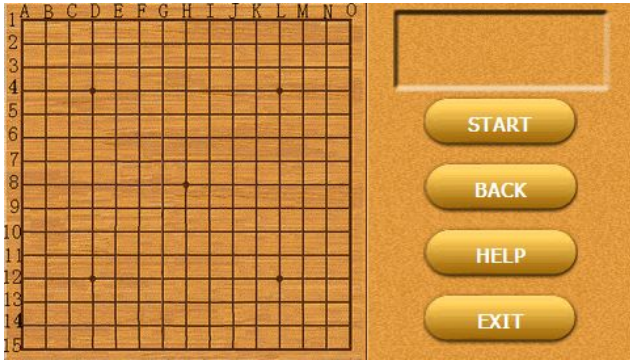
3.17 Snake

Tap in the Snake interface shown as below.
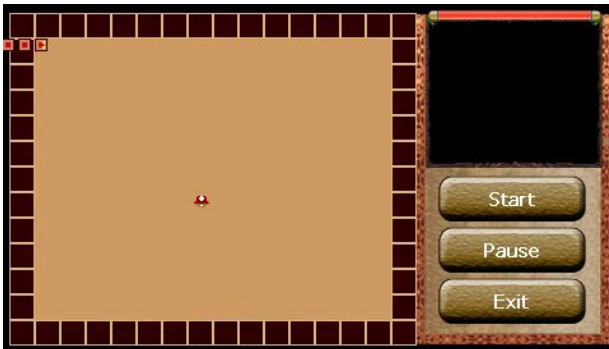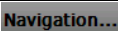
3.18 Nav path

Tap in the photo browser interface shown as below.

Select a map address and tap to save the setting.
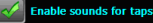
	Tap to select a map address.
	Tick in the box to run the set navigation map when the navigator is powered on.

3.19 Volune
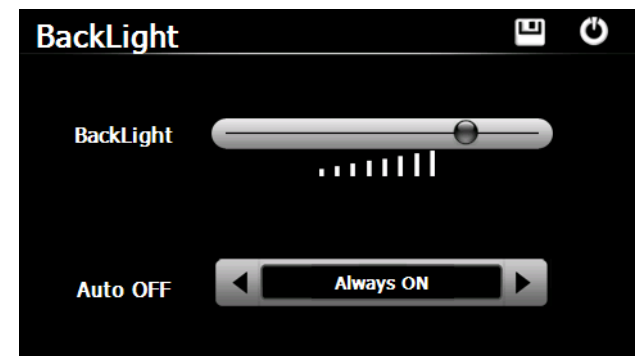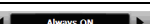
Tap in the photo browser interface shown as below.

	Close	Exit the volume setting.
	Volume	Ten volume grades (from mute to maximum) available. Tap to decrease the volume by grade.
	Sounds for taps	Tap it to enable the function. Tap it again to disable the function.
	Power-on music	Tap ◄ or ► to select power-on music or disable it.

3.20 Backlight

Tap in the photo browser interface shown as below.

	Close	Exit the backlight setting.
	Backlight	Drag leftward to turn down or rightward to turn up the backlight.
	Auto off	Auto backlight shutoff after service stop for a period. The options are always On, 10s, 30s, 1m, 2m and 3m. Tap ◄ or ► to view the options in cycle or select one.

3.21 Language
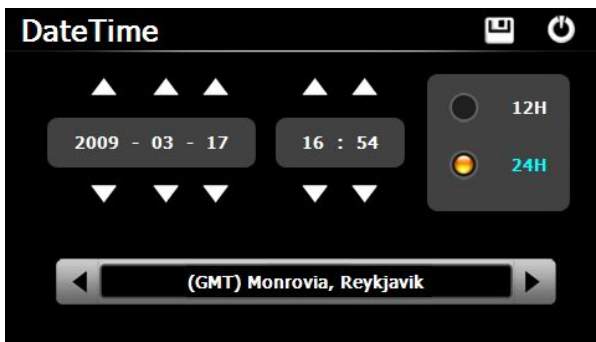
Tap in the photo browser interface shown as below.

Tap ◄ or ► to select a system language and tap 💾 to save the selection.

3.22 Date time

Tap [DateTime] in the photo browser interface shown as below.

Setting the system date and time

In the above interface, tap ▲ or ▼ to set the year, month, day, hour and minute.
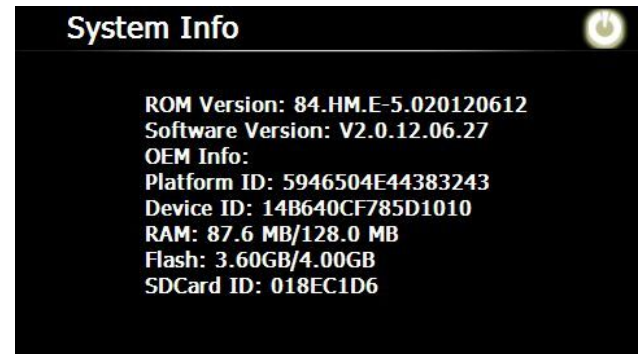
 [Note]: Time format options are 12-hour and 24-hour.

Setting the system time zone

In the above interface, tap ◄ or ► to select a time zone. For example, select "(GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi" for China.

3.23 Sys info

Tap [Sys Info] in the photo browser interface shown as below.

3.24 Bluetooth

Tap [BlueTo...] in the Bluetooth interface shown as below.

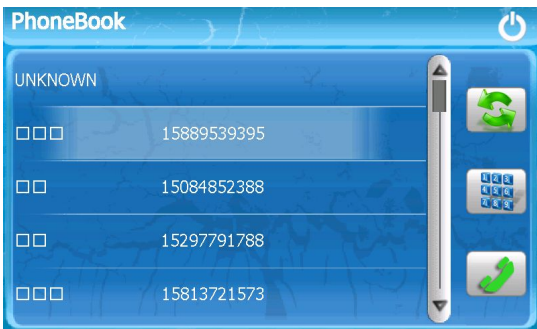Tap [icon] in the Search interface shown as below.
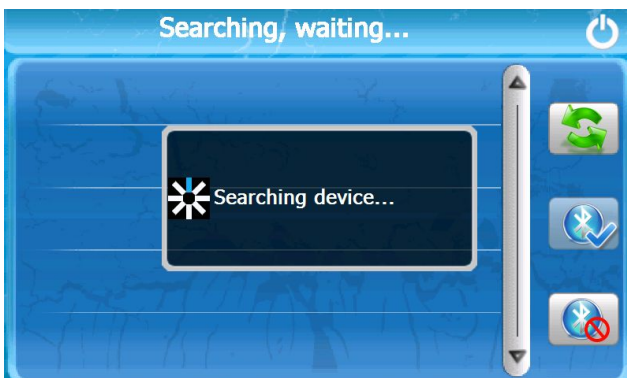
Tap [icon] in the To connect a Bluetooth interface shown as below.
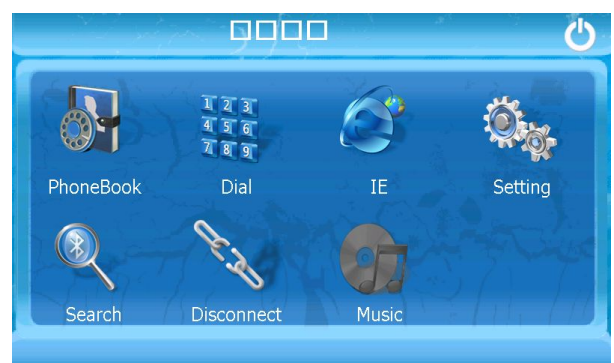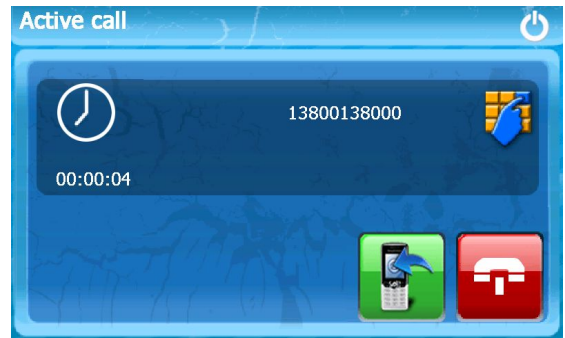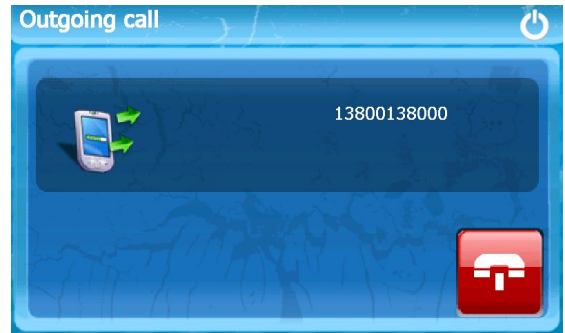
Tap ![icon] in the PhoneBook interface shown as below.
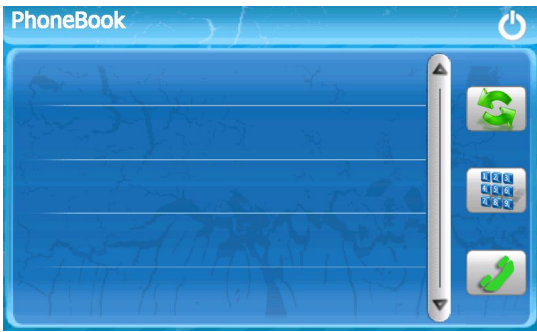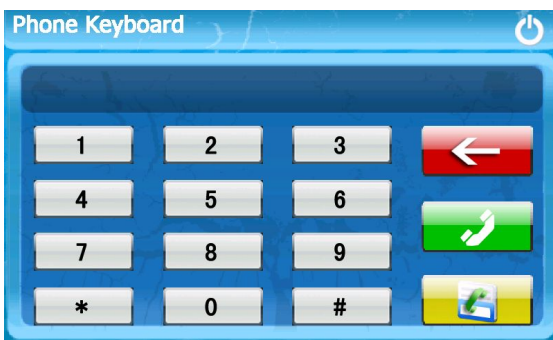

Tap ![icon] Click interface for access to the phone the following figure shown.

Tap ![icon] outgoing call
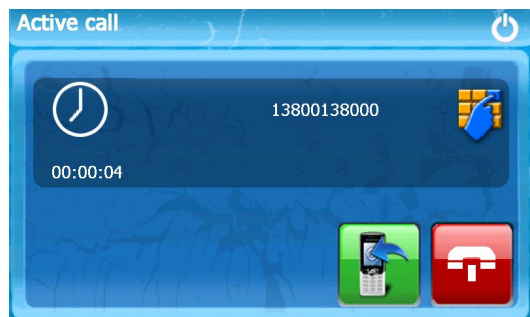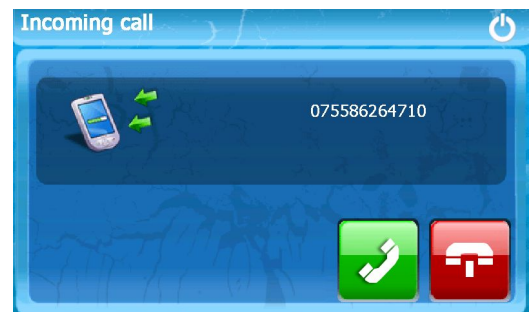

Tap ![icon] Phone Keyboard

Tap ![icon] Phone Keyboard

Incoming call

Tap ![icon] Keyboard

Active call

075586264710

00:00:19

1	2	3
4	5	6
7	8	9
*	0	#

Tap Visit the website

DUN List

Israel

China

Finland

Denmark

France

Tap Select the network state

DUN List

China Mobile GPRS

China Mobile TDSCDMA

China Unicom GSM

China Unicom CDMA

China Unicom WCDMA
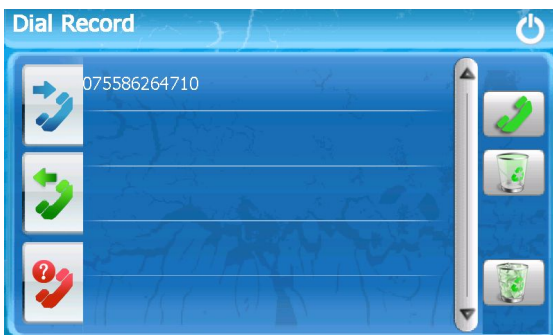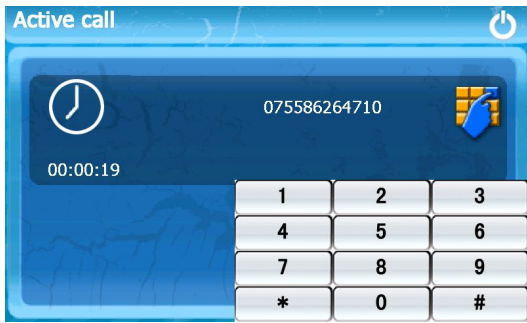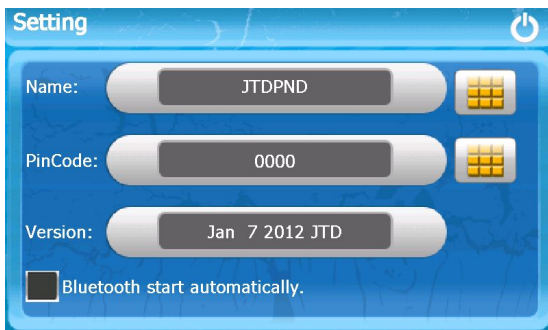
Tap Selection asked whether using a mobile phone to access the network, Select "Yes", then as shown.

Getting country, waiting...

Tap Bluetooth settings

Setting

Name: JTDPND

PinCode: 0000

Version: Jan 7 2012 JTD

☐ Bluetooth start automatically.

Click on the icon

Setting

Name: wetft6yy

PinCode: 0000

Version: Jan 7 2012 JTD

☐ Bluetooth start automatically.

Click on the icon , and disconnected

□□□□

PhoneBook   Dial   IE   Setting

Search   Disconnect   Music
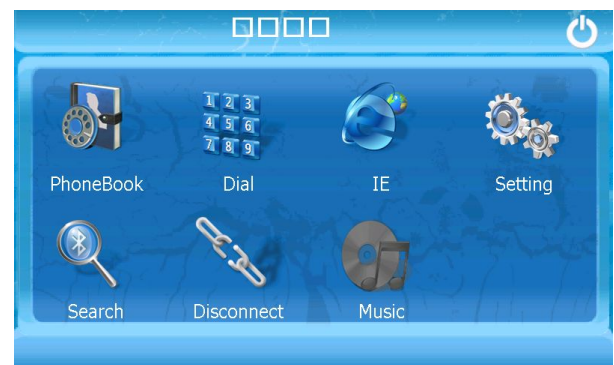
Click on the icon , to access music

R35

PhoneBook   Dial   IE   Setting

Search   Disconnect   Music
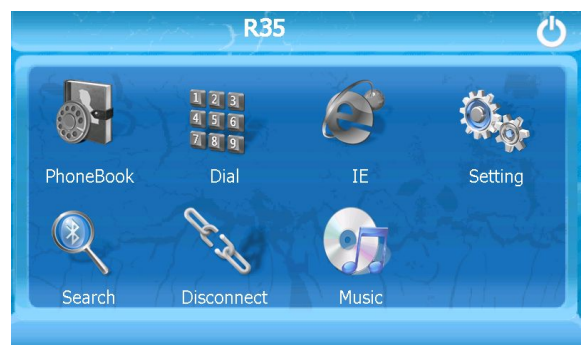
——The full feature version——

GPS Navigation, Speed Radar Dectecting, Video Recording, Parking
Camera, Parking Sensors, Bluetooth, Entertainment