



# SmartNav 5

— User's Manual —

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**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](http://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.



**—Leading Automotive electronic equipment—**

Navigate, Radar Detect, Video Record, Park System, Bluetooth

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**Chapter I Beginning Use**

**1.1 Appearance**

The effect figure below is subject to the material object.

**Display & touch panel**



**TF card for DVR    Speaker    Cable    Mount    Speaker**



**DVR camera    Radar receive Lens    Reset    TF card for GPS**

**Optional Accessories:**



**Cable    Bracket    TF card    Park system: camera&sensor**

## 1.2 Installation

The following must be operated by professional.

### Parts Description:



SmartNav 5 rearview mirror



Video line, power feed for camera and back power feed to DVR screen for reversing camera.



Wiring harness

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Reversing or rear camera (optional non LED camera available for 2nd or 3rd child safety cam)

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Universal mounting bracket (OEM mounts available for online orders or can be shipped out same day for using existing vehicle anchor on windshield).

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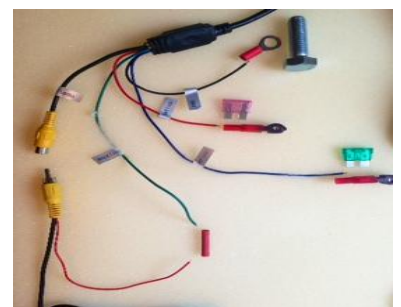
## 1.2 Installation

The following must be operated by professional.

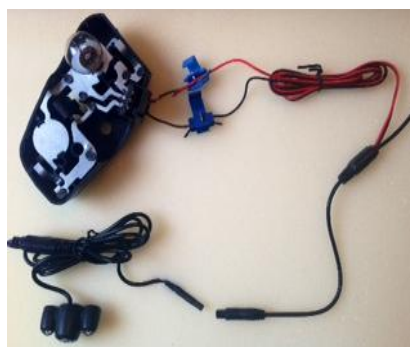
### Connection Points Overview:



Over view of wiring diagram



Connection points from wiring harness.



Reversing camera connection to reversing bulb.

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## 1.2 Installation

The following must be operated by professional.

### Installation of Parts:

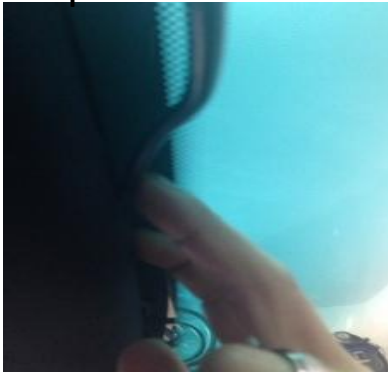
#### Step 1



Install mount on back of SmartNav with screws provided

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#### Step 3



Tuck wire from SmartNav into headliner. It only has to go in just a little to stay in place.

#### Step 5



Remove weather stripping and run wire harness behind it. As you come down the pillar. Tuck weather stripping back into place pressing firmly. You may need to use plastic wedge tool to force back behind dash part.

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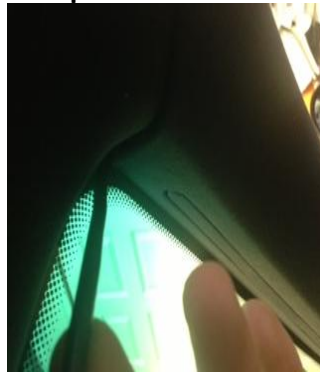
#### Step 2



Attach mount according to what mount you are using. If you are using pre existing anchor and OEM mount as in picture(BMW) use same process but in reverse of the factory mirror and mount you removed. If using universal mount and new anchor, you need to attach anchor with windshield mount repair kit which can be purchased at any auto parts store(not provided with purchase of SmartNav).

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#### Step 4



Route to which ever pillar A or B will get you to your power source. In this case it was B pillar the passenger side.

#### Step 6



Guide your wire harness to your power source in this case the fuse box. You can buy fuse extenders and attached power leads right to fuse(pic non critical fuse such as interior lights never modules or fuel pump) use a volt meter to find your constant power source(red cable batt+) which means this fuse always has 12 volts running thru it even with ignition off. Attach to fuse. The blue wire in your accessory power source this fuse only has power running thru it when the ignition is on. Use your volt meter to determine the fuse to attach to. (Again never use critical fuse). Dealership technicians or professional aftermarket installers can tap into back of fuse box or tap into wiring under dash. Note: if you tap directly into wiring check online for proper tap points. Some wiring comes from relays or distribution points and the voltage maybe lessened for its destination. Use volt meter to check volt current to ensure its above 12 volts. The SmartNav will not run as designed with anything less. Also keep in mind some cars may seem a power supply is constant. Wait 15 minutes after cars is off and recheck to see if that constant source went to sleep and shutoff. SmartNav uses it for memory. It has internal battery for safety shutdown.

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## 1.2 Installation

The following must be operated by professional.

### Installation of Parts:

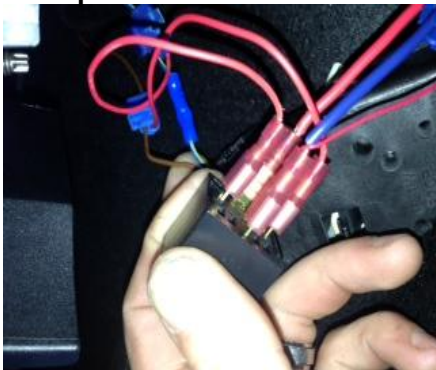
#### Step 7



Next find your ground source (black wire), you may have to extend your black ground wire to find suitable location)

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#### Step 9



Next run the rear camera wire feed to back of vehicle along the floor board trim then under rear seat. Mount your camera in desired location. To do this properly some panels may need to be removed in trunk or lift gate. (no picture to reference).

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#### Step 8

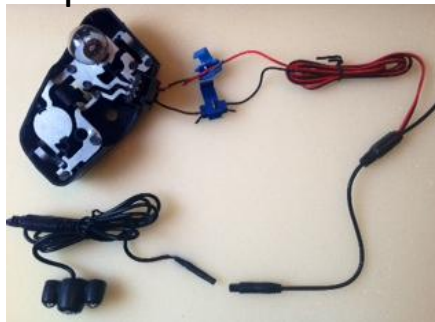


Next attach your rear camera feed (yellow connectors). From the wire harness and the rear camera wiring. Then attach your green wire (back12+) power to the red wire coming from rear camera wire feed. This connection will power your DVR screen to turn to rear camera when put into reverse (when reverse bulb turns on). Some vehicles power the back tail lights thru a relay and drop the voltage to reverse bulb. You will have to find that relay or the point at which the reverse bulbs are branched out. Or use a 12 volt automotive relay yourself and tap into another power source. Using the reverse lamp tie in as your closing circuit. (See sample picture below).

There are very few cars that have this issue. Just be sure camera is receiving 12 volts.

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#### Step 10



Tie in the red wire to reverse bulbs power source and the black wire to its ground. You can download wire diagrams online to tell you which is which. Or use your volt meter while the cars in accessory position NOT running have a friend put car in reverse, and keep their foot on brake pedal or use parking brake to keep car from rolling. If you locate these same wires in let's say a top of a lift gate you can splice in there. It may make it easier to wire to your desired location of camera.

If you have any questions email App-Tronics at [info@apptronics.com](mailto:info@apptronics.com) or call [1-888-587-4111](tel:1-888-587-4111) for further assistance.

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### 3. Basic Use

#### 1. Powering on/off

The device automatically run when ACC is power on. Press the power key to enter sleep or awake.

#### 2. Led status

Green Led:The video recorder indicator, it is twinkle when it is recording.

Red Led: The power indicator.

#### 3. Key definitions

BASE KEY	Short push		Long push	
POWER	Sleep		Power off	
LCD	Close backlight		Switch GPS or DVR	
RESET	To reset the system			
DVR KEY	Recording	Reviewing	Menu	No video
MENU	Menu on/off	Menu on/off	Exit Menu	Menu on/off
OK	Stop record, Enter review	Pause/play	Enter	Record
UP	Voice record on/off	Play: last video Pause/stop:record	Up	

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### 4. Using T-FLASH Card

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

[Note]:

- 1.Do not take out the 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.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.



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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

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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

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Datetime	Time and date settings
Sys info	Check the latest information
Bluetooth	Bluetooth setup operation

### 5. Parking sensors\_Optional function

Please view in the user manual of Parking sensors.

### 6. Parking camera\_Optional function

After the device runs on, it will display the reversing image when the car is changed 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.

### 7. Digital video recording

When the device power on, the default display screen is GPS . Tap the key to switch GPS/DVR. 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, the new video clips will automatically overwrite the first image.

**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.

**MJPEG 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 formatted the card before using.

#### 1.7.2 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	

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TV Out	NTSC	Set the format of TV out
	PAL	
Audio Record	On	Set for recording audio
	Off	
Language	English	Set the language for menu
	繁體中文	
	简体中文	
Frequency	50Hz	Set the frequency of video
	60Hz	

Protec slot full	There is no room for more locked video	Unlock some in playback mode
No Video	No video	Just to record

#### 1.7.3 System error message define

Error Message	Description	Solution
No Card	Detect no card	Push in a card
Card Protected	Card is protected	Unlock and push in
Card Error	Error occur when reading or writing the card	Replace a new one
Card size too small	Size is smaller than 4GB, so can't record	Please use 4GB or larger
Card not formatted	Card is not formatted yet, so can't record	Format it firstly
Card size changed	Card size is changed, so can't record	Please backup the data and format it.
Sensor FAIL	Sensor Initialize an exception occurs, so can't record	Return to repair

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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 replacement memory 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 the P43\_2.EXE in the memory card, 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.

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## 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. Navigation with Speed Radar Alarm




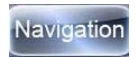
Tap  to enable navigation and detecting radar function.




Tap  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  to delete the current position from the alarm location list.



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




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



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

		Preview
Speed of Silence	<input type="text" value="0 km/h"/>	When car speed is smaller than the value, The alarm does not prompt
		Add the speed value
		Sub the speed value
Navi A		Select A as current excutived navi program, Navi A will display on title bar.
Navi B		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 decrease
		Volume increase




Tap  to set the navigation paths for A, B.




## Chapter III Interface and Operation

### 3.1 Music Player



Tap  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 <b>Media</b> interface.
	Play	Continue playing the paused/ stopped music.

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




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### 2.3 GPS signal.

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 abnormality.







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.

	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.
	Time	Display the run time.
	Equalizer	Enter the equalizer.

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




Icon	Name	Explanation
	Close	Close the <b>Music List</b>
	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.







- 30 -



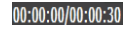
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### 3.2 Movie Player

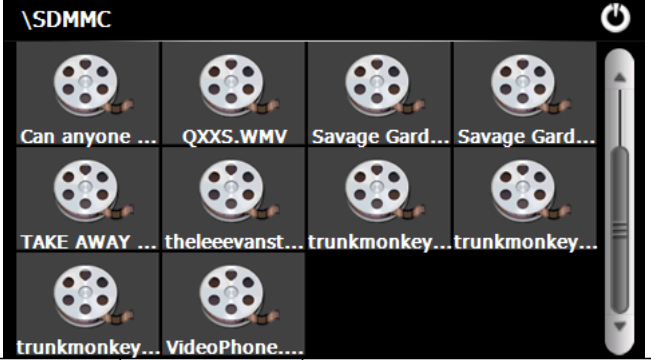

Tap  in the video player interface shown as below.





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.


	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.
	Time	Display the play time and the music duration.

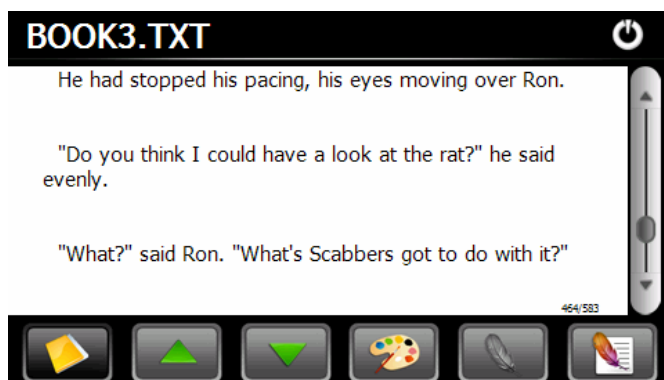
Tap  in the **Video Player** interface to enter the video folder shown as below.



		
Icon	Name	Explanation
	Close	Close the video folder.









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


### 3.3 E-book Reader

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



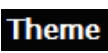







Icon	Name	Explanation
	File name & format	Current file name and format.
	Close	Close the reader.


	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.
	Page/ total pages	Current page/ total pages

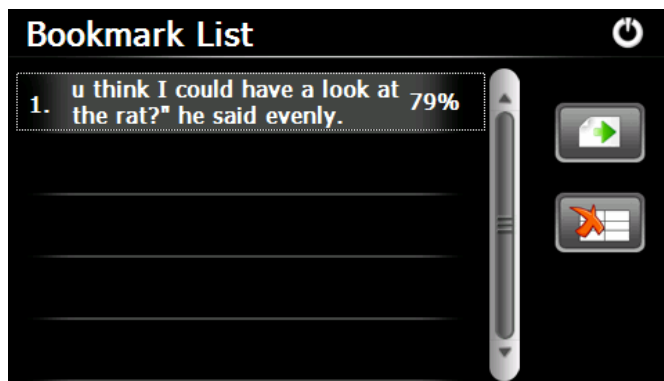
Tap  in the e-book reader interface to enter the setting interface shown as below.





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


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

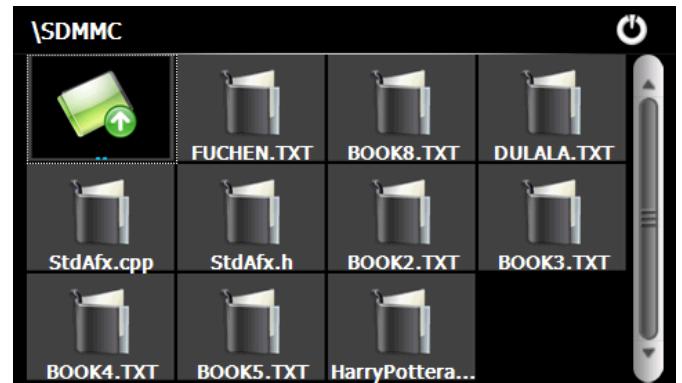
Tap  to view created bookmarks in the interface of **Bookmark List** shown as below.










Drag the scroll bar and select a bookmark on the left list. Tap  to go to the page with the bookmark or tap  to delete the bookmark.

### 3.4 Flash player

Tap  in the Flash player interface shown as below.




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.
	File name& format	The file name and format.

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




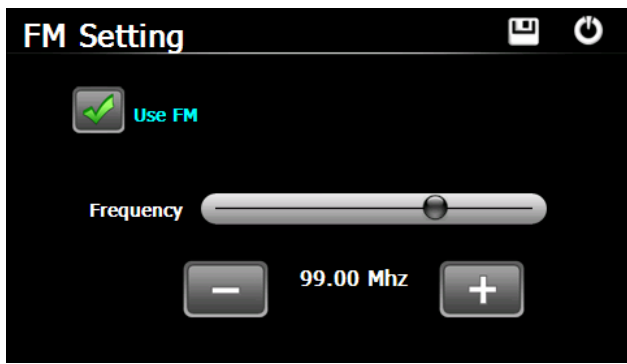
### 3.5 Wallpaper

Tap  in the Wallpaper interface shown as below.



### 3.6 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.

### 3.7 Calculator



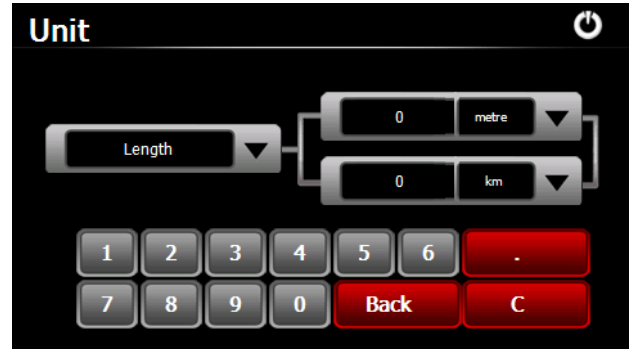
Tap in the Calculator interface shown as below.



### 3.8 Unit



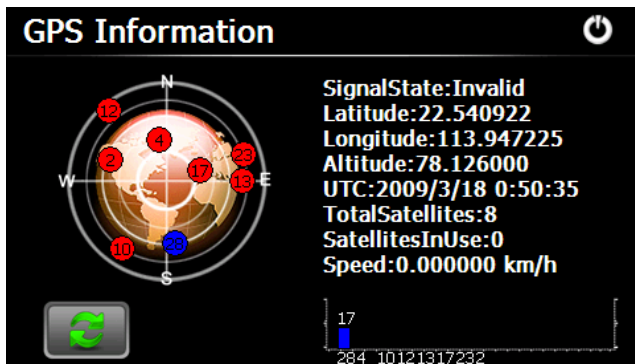
Tap in the Unit interface shown as below.



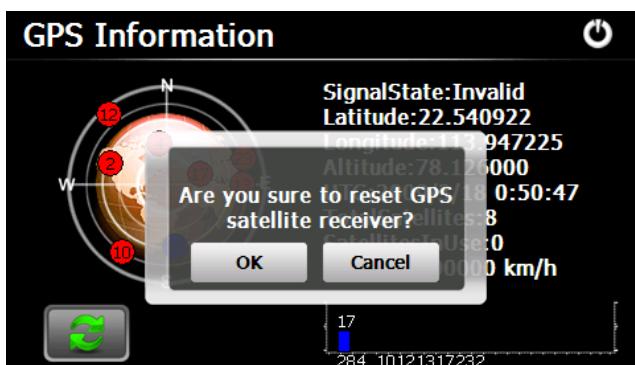
### 3.9 GPS info



Tap in the GPS info interface shown as below.



Tap to prompt a dialog as below.

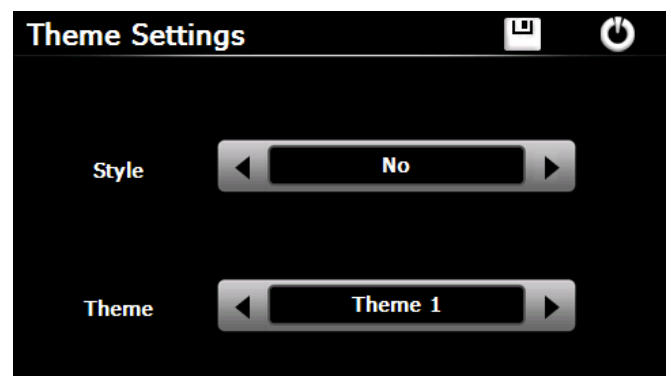


Tap **OK** to reset the GPS satellite or tap **Cancel** to exit.

### 3.10 Theme



Tap in the Theme interface shown as below.



### 3.11 Photo Browser



Tap 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 <b>Media</b> interface.

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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.

### 3.12 Explore

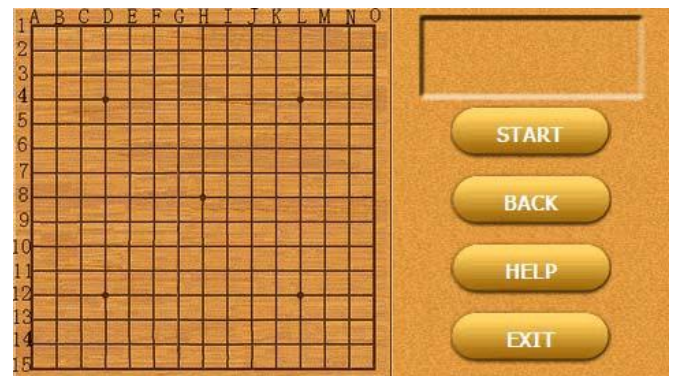
Tap in the Explore interface shown as below.

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### 3.13 Gobang

Tap in the Gobang interface shown as below.



### 3.14 Snake

Tap in the Snake interface shown as below.




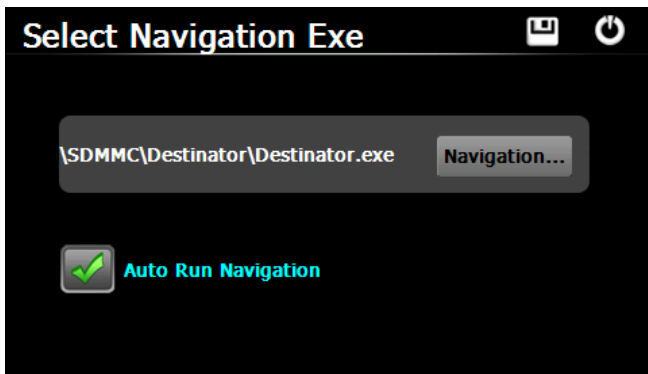
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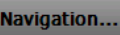

### 3.15 Nav path



Tap  in the photo browser interface shown as below.

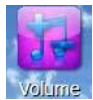


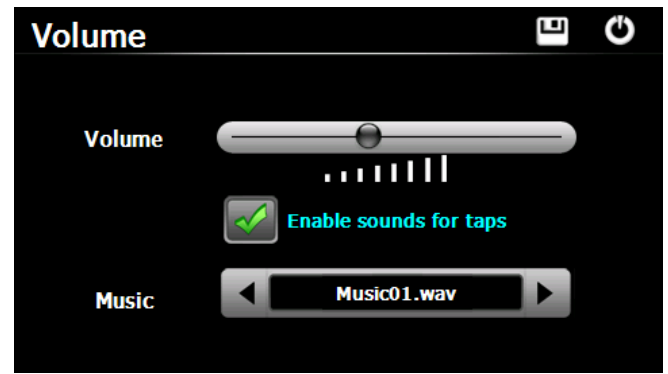
Select a map address and tap  to save the setting.




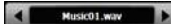


	Tap to select a map address.
	Tick in the box to run the set navigation map when the navigator is powered on.

### 16. Volume




Tap  in the photo browser interface shown as below.

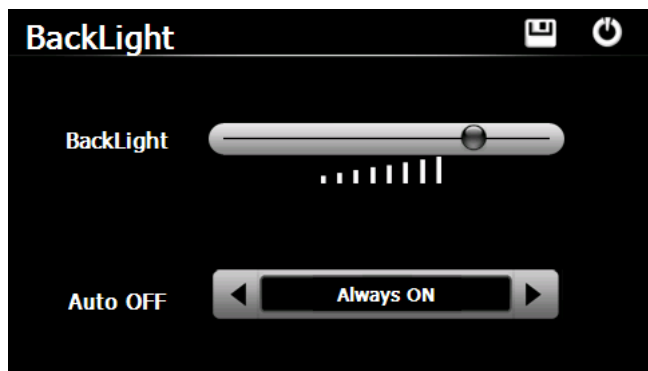







	Close	Exit the volume setting.
	Volume	Ten volume grades (from mute to maximum) available. Tap to decrease the volume by grade.
	Sounds for taps	Tap it to enable the function. Tap it again to disable the function.
	Power-on music	Tap  or  to select power-on music or disable it.

### 17. 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.

### 3.18 Language



Tap  in the photo browser interface shown as below.



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

### 3.19 Date time



Tap  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.

## 20. Sys info

Tap  in the photo browser interface shown as below.

## 21. Bluetooth

Tap  in the Bluetooth interface shown as below.



Tap “search” in the Search interface shown as below.




Tap  in the To connect a Bluetooth interface




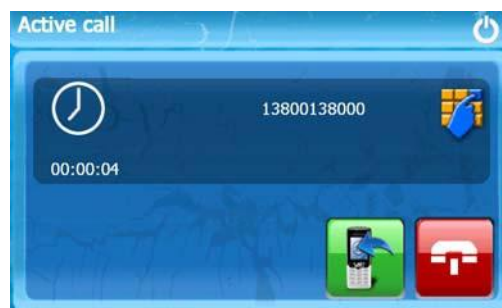
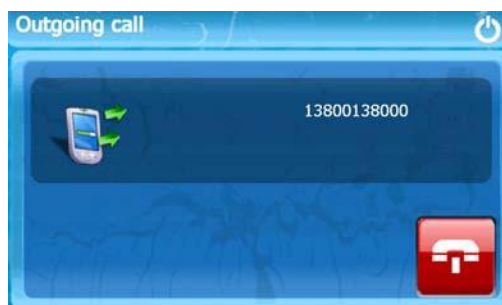
Tap  in the PhoneBook interface shown as below.



Tap  Click interface for access to the phone the following figure shown.




Tap  outgoing call

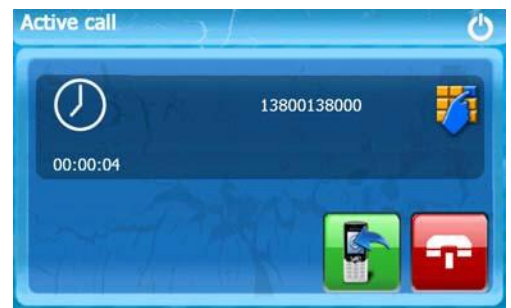
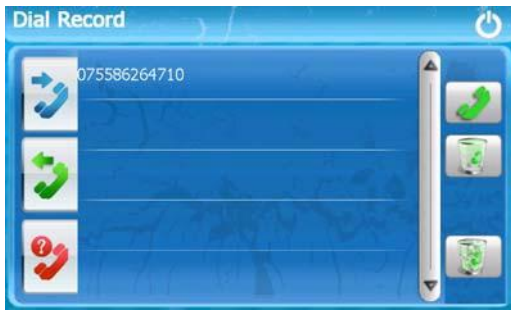


Tap  Phone Keyboard






Tap  Phone Keyboard and incoming call




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Tap  Keyboard

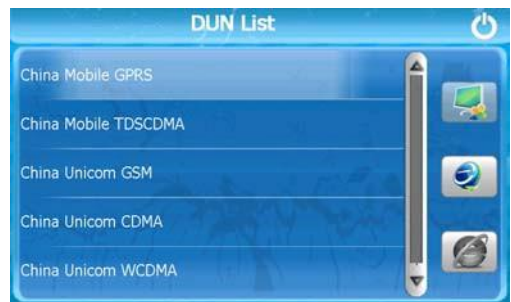



Tap  Visit the website



Tap  Select the network state

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



Tap  Bluetooth settings

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Click on the icon 



Click on the icon , and disconnected

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Click on the icon , to access music

