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General tips for GPS application

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General tips for GPS application

The following content is tips for GPS device application and operation. Please read it before starting use of the GPS device, so that you may make a better use of the GPS device.

While the GPS device is working, it receives signals from satellites for positioning. The signal from satellite may not be received, or be weakened in room, nearby some big buildings, or under overhead bridges.

When the GPS device is receiving satellite signals, you will get signals from different satellites when you are in different places, this is called "Satellite Path"; a "Satellite Path" only covers a range of 300 KM. If a "Satellite Path" is defined at place A, then turn off the device and move to another place beyond 300 KM away from A, the device is under another "Satellite Path", at this moment, the device needs to search for satellite signal again. To track the new "Satellite Path", this will take quite a long time. To save time for this searching, you may click "GPS Reset" button in menu of "GPS Testing" to clear the previous "Satellite Path".

It will be difficult and taking more time to catch positioning signal from satellite during high speed driving. It is suggested to search the positioning signal by stopping your car for a better and safer effect.

While charging the device, please only use the travel charger or car charger equipped by the manufacturer in its original package. Other chargers may cause damage to this device, and this damage is not covered by our warranty.

Function Description

Ultra large, high-definition, and true color display, touch screen operations with handwriting input.

Professional portable navigation system, interface design of car electronic products, changeable theme interface, and convenient operations.

Most popular Windows OS, World class CPU

SD card of extensible capacity for mapping data, MP4 video, MP3, music, Photo, and personal files

Map for major large and medium scale cities, detailed mapping data, real voice guidance, and automatic smooth switching

Built-in high sensitive GPS receiving module and antenna, Faster GPS signal receiving and more accurate positioning

Prompt and accurate position information applicable for GPS data collection, e.g.

Area measuring

Prompt response for both cold and warm start; Re-capture of GPS signal just in 1 second on average. Accuracy of positioning: no more than 10 meters;

Accuracy of timing: no more than 1 microsecond.

Embedded Organizer/Calendar, personalized friendly touch panel handwriting control, record and plan personal schedule.

Multimedia entertainment: Flash display, MP3 music, MP4 video, Photo viewing
Function Description
Illustrations on screen display:

System UI (Projector Screen)

Under this UI, click icon down the screen to enter the function page. Then there will be Looped layback of cartoon, click it to entry this function. If you click the icons beside the function icon you can enjoy the cartoons. If you click the arrow up the corner you can turn pages to view, which accompanies the cartoon at the same time.

Secondary UI (Projector Screen)

In this interface, click the icons on the screen to enter the corresponding functions; and click the arrow on the right bottom to turn the page. There will be an animation effect when turning the page.

System UI (Green background)

In this interface, click the small icon to switch to the corresponding page. Then, an animation is played circularly on the screen. Touch the screen or the small icon on the bottom to enter the function, and click the arrow on the right bottom to turn the page. There will be an animation effect when turning the page.
In this interface, click the icons on the screen to enter the corresponding functions; and click the arrow on the right bottom to turn the page. There will be an animation effect when turning the page.

⚠️ Two kinds of theme interfaces are available. To change theme, change it in the language setup under the system setup.

Battery Status Icon:

- Full
- Drained

⚠️ When the battery is at low power level, please charge it immediately to ensure the device work normally.

Charging:

**Warnings for charging:**

1. A new battery may be empty and not charged before you get the device.
2. To achieve the best performance of the battery, it is better to charge it up to 8 hours in the first three times, but not over 16 hours.
3. In normal charging with DC charger, please make sure to charge it for 2 – 2.5 hours to get it fully charged.

A new battery will reach its best performance after a number cycles of charging and discharging.

⚠️ If the device is not used for long time, it is better to charge it to full capacity every 2 or 3 months during storage.

⚠️ If not using the device for a long time, it is wise to take out the battery.

**Charger Application:**

**DC Charger:**
Take out the DC charger, plug it into the wall outlet with AC 220V(100V~240V), then plug in the DC jack into the device DC-in jack (see the illustration below).

**Car Lighter Charger:**
Please insert the car charger into car cigarette lighter jack, then plug into the USB jack (see the illustration below).
When you use car charger, please start car engine first, then connect it to the device to avoid possible damage to the device due to overloading pulse current during ignition. Please pull it out when you stop the engine, and plug it in again after next ignition.

**Power On the device**

In power-off status, slide the switch to "ON" position to turn on the device, then the OSD will be displayed on screen.

**Sleeping mode**

In power-off mode, press the power button on the device for 3-5 seconds then the sleeping mode or confirmation for power-off screen will display as follows:

In this UI click the button will be in sleeping mode, click the button to exit the UI and back to normal operation.

**Waking up from the sleeping**

When in sleeping mode, a short press on the power-on button of the device will wake up the system.

When in sleeping mode, all procedures in operation will pause but will back to normal status after waking up.
Warning: when it plays in full screen, the tool bar down the screen will be hidden. If you tap the screen, the tool bar will show.

Music Playback:
This is for Music Playback with format of MP3, WMA, and WAV.

Operation:
On system main menu, click icon to play music.
On this UI, click button to search for music files not in selected folder; click button to close this window and exit music play mode; double click, or select then click button to play this music file.
Music play mode is displayed as following diagrams:

Button and control in Play Mode:
In music play mode, click button to pause, then it becomes Play Button. At this time click button, music play mode will return again; click button to stop; click button to jump to the next one; click button to jump to the previous one; click button to switch Repeat mode; click button to set mute, then this button will become; click again to recover.

Exit from Music play
Click button at the upper right corner to exit.

Photo Display:
This is for Photo Display with format JPG stored in an SD card.

Operation:
On system main menu, click icon to enter into Photo Display function.
On this UI, click button to search photo files not listed in the appointed photo file folder; click button to close current UI and exit Photo Display function; double click or select then click button to open or play this file. Display shown as the right illustration.

Operation under photo view
Then, click or button to select previous or next photos;
RMVB Playback:
This function is special for RM and RMVB files.

Operations:

On this UI, click the button to search video files not listed in the appointed video file folder. Click the button to close and exit from Video playback application. Double-click or select and click the button to open and play this file.

In the system UI, click the "RMVB" to enter into the Video Player.

In the present UI, click the "button" to search the video files which you have saved beforehand. Click the button to exit the rmvb player. Double-click the file you select or click the button to open the file.

UI and button definition:
Play, Pause, Stop, Close, Next, Previous, Full screen display

You can slightly tap on screen to get it. It will take a few minutes to search files when video play mode starts. If this application has not been used for a long time.
Function & Operation

Flash Playback:
This is for Flash file playing.

Operation:
On system main menu, click icon, to get into Flash playing mode, then file selection UI will be shown on screen:

On this UI, click button to search Flash files not in selected folder; click button to close this window and exit Flash playing mode; double click, or select then click button to open this selected file.

Control buttons in playing mode:
- : Play, in Pause or Stop mode, press this button to play;
- : Pause, in Play mode, pressing this button to pause;
- : Stop, in Play mode, pressing this button to stop;
- : Fast Forward, in Play mode, pressing this button to get fast forward once;
- : Fast Retreat, in Play mode, pressing this button to fast retreat once;
- : Full Screen, pressing this button for full screen play; Return, pressing this button to return back to system main menu from playing mode;
- : Sound Settings. Click the button to change into mute, in which status the sound icon will change to Click the mute icon to back to its normal status and the sound icon will back to at the same time.

⚠️ In full screen, tool bar will be hidden at screen bottom, you may get it by tapping on the screen.

Video Playback:
This feature is for video file playing, with the formats: AVI, MPEG, MPG, ASX, DAT, ASF and WMV.

Operation:
On system main menu, click icon to enter into Video Playback application.
click or button to zoom in or zoom out photo; click button for full screen display. In full screen display, tap the screen again to exit full screen display; click button to select display of different percentage; Click the button you can Ctrl-Shift-R or Ctrl-R the photo. is for selecting to set automatic or manual mode to turn page of display.

Exit Photo Display:
Click the button on upper right corner to exit.

Bluetooth Function:
The Bluetooth function is used for communication purpose. After the device is connected to a mobile phone with Bluetooth capability, you can operate the mobile phone functions on this system. He can dial or receive a call, view the call record of the mobile phone or perform other functions. Click the Bluetooth icon on the main interface and enter the following interface:

Enabling Bluetooth Function:
In the first use of the Bluetooth function, you will see the interface shown above. Only Bluetooth Setting is available. Other functions are all unavailable in the gray-out state. At this time, enable the Bluetooth function. Click Bluetooth Setting to enter the setting interface, as shown in the following diagram:

On this interface, the PIN code is the identification code to connect the mobile phone. To connect the mobile phone, you need to enter this code on the mobile phone before the connection is established. The number can be set freely. Click the keypad icon behind the number and enter the input interface.

Select by ticking the check box ahead of the Enable Bluetooth Function to enable the function. The return to the upper-level menu.

At this time, as the mobile phone is not connected, other mobile phone functions are unavailable.

Connecting Mobile Phone
After the Bluetooth function is enabled, on the Bluetooth function interface, click the Pair icon to enter the Bluetooth equipment matching function.

If connection has been established in the past, the interface will list all
can enter some numbers when necessary during your call. Click the "EndCall" button to end the call.

**View Call Record of Mobile Phone:**

On the Bluetooth function interface, click the Call Record icon to enter the Call Record. To read the information of the mobile phone in this function, it may take some time.

At this time, click the three relevant buttons on the top of the screen to view incoming calls, received calls and dialed calls. Select an option, and click the Dial button in the lower part of the screen to dial the selected number.

*Not all Bluetooth mobile phones support the viewing of local call records through another device. If this function cannot help to view the call records of the mobile phone, please confirm whether your mobile phone provide this function.*

**EBook Reading**

This is for eBook Reading with format .txt stored in an SD card.

**Operation:**

On system main menu, click button to enter into eBook Reading application.

On this menu, click button to search for .txt files not in selected older; click button to close this window and exit file reading mode;

double click button, or select then click button to open this file.

The screen display is shown as follows:

Click << or >> button to turn page up or down;

"Manual/Automatic" is set for selecting Manual or Automatic page turning;

Font is for selecting letter size of display.

**Bookmark**

This is for bookmark in reading a voluminous article, marking or jumping to the last time marked page, a humanized design for convenience while reading.

**Jump to the appointed page**

This is for jumping to the appointed page when reading a voluminous article and no bookmark is set.

**Search for specific word or phrase in eBook**

This is for searching a specific word or phrase in the current reading article.
devices that have been connected in the past. Select a device and directly click the Connect button to connect to the device. The connecting process may take a few seconds. Be patient. Click the Delete button to delete all connected records.

In the case of first use, please click the Pair button at the right lower corner to enter the equipment search interface. Start the countdown of 60 seconds.

At this time, enable the Bluetooth function of the mobile phone to search the Bluetooth device. After it is found, enter the same PIN code as that displayed on the screen of this system and match the device. The screen will also display “You’ve matched your mobile phone successfully!”

At this moment, click OK to return to the upper-level interface. You’ll see that all functions are available now, as shown in the following diagram:

Dial Keypad:

On the Bluetooth function interface, click the Dial icon to enter the Dial Keypad:

At this time, click the number keypad to enter the telephone number to be dialed, and then click the Dial button at the right lower corner to dial the number. Click the Back button to return to the upper-level function.

After the Dial button is clicked, the mobile phone enters the call state. The screen display is shown in the following diagram:

During the call, click “DTMF-dial” to open dial keyboard then you
All information in this interface are instant information. For details, please refer to those of the device.

GPS reset:

There will be different satellites in different places correspondingly when the GPS navigation equipment is receiving the geosynchronous satellite signal. This is called "Ephemeris". An ephemeris covers a range of 300KM. When you have set the "Ephemeris" in place A and shut down the equipment to take it beyond 300KM, the equipment will be in another ephemeris, and start searching for the satellite to ascertain the ephemeris. This may cost a lot of time. Clicking "Reset" utter before searching would save much time.

Calculator

This device has two calculators: Ordinary and Scientific calculator,ble to be switched at any time, a good assistant for your work and study.

Operation:

In the system UI, click the icon " " to open Tools, then find the icon click it " " to activate the function of Calculator.

As shown in the above illustration, the calculators can be used like normal others. Click "Scientific/Ordinary" on the right to switch between Scientific Calculator and Ordinary Calculator; The unit of calculation of the right can be taken according to actual demand.

Exit Calculator Mode:

In Calculator mode, click " " button at the upper right corner of the screen to exit and return to system main menu.

System Setting

This is for system setting to change default setting of the system to your personal preference.

Operation:

On system main menu, click " " icon to enter into system setting.
Screen display is shown as the illustration below:

In system setting, there are 9 items for setting, click directly each item to change setting for it. Details will be described one by one below.

**Language Setting**
This is for setting system language.

**Backlight setting**
This is for changing backlight brightness of the device screen display, and time to start screen saver when no operation on the device.

**Power Management**
This is for setting auto power off and/or power saving mode, and time to start power off and/or power saving when no operation on the device.

**Sound Setting**

This function is for setting start-up music, clicking volume and the whole volume.

**Time Setting**
This is for setting time of the system. After entering into this UI

**System Resources**
This is for checking system resources:

**Coordinates Calibration**
This is for calibrating the stylus coordinates on touch screen.
On this UI, use stylus to tap at the center of the cross, then tap on other crosses which will move after each tapping until finish and "Touch Screen Calibration Completed" is shown.

**Update Logo**
The function is for updating start-up logo of the device. Please be sure that you have stored the Logo pictures into the SD card. After entering into this UI you will see the interface shown below:
AV-IN (Need to be equipped with camera)

You can adjust the direction of the image displayed in the camera under AV-IN.

Under this interface you can select the items below the Effect of video directly, and then click it to exit the function.

USB

This is to set the mode when the USB interface of the device is connected to the computer, in which "U disk" is to set the device as the portable memory, and "ACTIVESYNC" is to use the device for program debug.

Game

On system main menu, click icon to enter into Game. Screen display is shown as the illustration below:
In this state, click the game icon on the screen to enter the game. For details on how to play the game, see the help information that will be available after you enter the game.

Allocating files in SD card

Operation procedure may interfere files in SD card, causing irrationality, due to long operation of the device, and the whole efficiency is likely to be influenced. In that case, we can apply the function "Allocating files in SD card " to optimize configuration of files in SD card, in order to enhance the whole running efficiency.

Operation:
In the main system interface, click the button up on the screen, then it will automatically show the window of allocating files in SD card, and the result of the optimization will show as follows:

At this moment, click button "OK" to close the present window.

Car-backing Rear View Function

This function is a fully automatic function. No manual operation is needed. Equipment Installation:

The receiving device of car-backing rear view is installed on the seat of the navigator. In that regard, before the use of the device, it should be installed on the vehicle mount bracket. The rear view camera should be installed in the professional vehicle refit shop.

This function needs the navigator as monitor. In that regard, when the car-backing rear view function is enabled, do not turn off the navigator.

Once the vehicle is engaged in the backing gear, the navigator receives the signals, and automatically switches to the display image of the rear view camera. When the vehicle is not engaged in the backing gear, the
navigator will switch to the previous work mode automatically.

Returning to Win CE Desktop

The device can return to the Win CE by pressing one key and implement the PDA functions.

Operation Procedure:

On the system main interface, click the icon and the screen pops up the confirmation dialog box. Click OK to return to the Win CE desktop. At this time, you can perform relevant operations.

Return to the navigation system from the Win CE desktop:

On the Win CE desktop, click the icon to start the navigation system.

Video Input Function

The device supports the video input function. The video signals outputted by another device are transmitted to the device through a video cable. The device can work as monitor. Without any operation, the device will detect automatically the input of the video signals, and will automatically switch the current function to the video display state. After the connecting cable is disconnected, the system will return automatically to the previous work mode.

How to save and allocate files in SD card:

Usually, the files used by the device are saved in the appointed folders to ensure the access for embedded program of the device. You may save files into other folders or under root directory of the SD card. If the files are saved in the appointed folders, when opening the corresponding application, these files can be seen directly; If not in the folders, then you can not see them for the application, so that you need to click “Search” button, the system will search in all files in un-appointed folders until find it and display the result of search. For the sake of convenience, it is strongly suggested to save the files into the corresponding folders. The function and application of folders in SD card is listed below:

- eBook File
- Video File
- Navigation File
- Photo File
- Music File

⚠️ Attention: Navigation software must be saved into GPS directory!
Specifications

<table>
<thead>
<tr>
<th>CPU</th>
<th>SIRF Atlas V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB/4GB/8GB</td>
</tr>
<tr>
<td>Chip</td>
<td>GRF3i+</td>
</tr>
<tr>
<td>Antenna</td>
<td>Built-in folded antenna</td>
</tr>
<tr>
<td>Memory Card</td>
<td>Applicable for a Maximum up to 8GBSD card</td>
</tr>
<tr>
<td>Screen Type</td>
<td>TFT Touch Screen</td>
</tr>
<tr>
<td>Screen Size</td>
<td>4.3&quot;x4.8&quot;/5.0&quot;</td>
</tr>
<tr>
<td>Screen Color</td>
<td>65K colors</td>
</tr>
<tr>
<td>Dot Matrix Display</td>
<td>480<em>272 / 800</em>480</td>
</tr>
<tr>
<td>Extension Slot</td>
<td>SD/TF</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Removable Li-ploymer batter</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>950mAH+</td>
</tr>
</tbody>
</table>

Trouble Shooter

<table>
<thead>
<tr>
<th>No.</th>
<th>Fault</th>
<th>Possible Cause</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No power on</td>
<td>Battery drained (The screen has no further display after a blink when pressing power on button.)</td>
<td>Please refer to the description of battery charging in this manual, only use the enclosed charger to charge the device.</td>
</tr>
<tr>
<td>2</td>
<td>Dead/Unit</td>
<td>The start interface stays on the screen for long time without changing.</td>
<td>Take out the battery, then put it back, start the device again.</td>
</tr>
<tr>
<td></td>
<td>No display of screen, or display on screen is frozen as any button is pressed.</td>
<td>Press and hold the power on button for 5 seconds, then release it to power on.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Emer in upgrade</td>
<td>Dead or frozen during upgrade, display on the screen is frozen and no button works.</td>
<td>Take out the battery, then put it back, start the device again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This fault can only be fixed by the manufacturer. Please return for repair.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Impossible to recharge</td>
<td>During charging, the green LED indicator of the device has no light or no charging sign displayed on the screen.</td>
<td>If the charger is connected properly and powered.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Charge is damaged.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery is damaged or fail charged.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>It is normal when the green LED is lit on but the charging sign is not on the screen at the same time during charging.</td>
<td></td>
</tr>
</tbody>
</table>