3.5" Water Proof Motorcycle
GPS Navigation System

Please read this manual before you start using this device

◉ Thanks for purchasing our product. Please read this manual carefully before starting to use this device. When you use this device, you are supposed to learn well of this product.

◉ The information in this manual has been verified for its accuracy. But no liability will be applied for the correctness of mapping data of navigation, technical and/or editorial interpretation or illustration, or the printing and translation of this manual, nor liable for any consequence or incidental damages caused by using this manual.

◉ This device is a complicated technical product consisting of OS and third party software. The manufacturer has paid sufficient attention to and fulfill its duty in its hardware manufacture processing and in development and/or application of the software so as to ensure the device work properly. If there is any malfunction or defective of the device, the manufacturer will provide a warranty for the congenital quality problem, but not covering for any loss or damage of property, or any consequence caused by or related to using this device.

◉ The navigation software and mapping data is provided by a third party. Its copyright is protected by laws. A User can only use on this device, any copying or application of the software for other purpose is not allowed.

◉ No explicit and/or implicit guarantee or assurance will be applicable for the validity, integrity, correctness, accuracy of mapping data for navigation used on this device, nor liability for any loss, damage, and/or any consequence caused by or related to defective mapping data or software used on this device.

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Catalog

Accessories:

GPS ----------------- 1   Stylus Pen-------------- 1   Power Cable-------- 2
Mount--------------- 1   Nuts ------------------- 4   Battery -------------- 1
Cradle--------------- 1   USB Cable ----------- 1

Name of the components：


Host GPS Device:

① Power Key: Power on/off/sleep
② Micro SD card Slot
③ MINI USB Port :
　　1. Exchange the data with PC by MINI USB Cable .
　　2. Charge the GPS device by connecting AC adaptor or GPS charger
④ Reset
⑤ Motor charger
⑥ Speaker
⑦ Display screen

Connecting devices

A)To install an external power credle and mount
1. Rotating the fixed knob, rotated the mount to the shape as illustrated.
2. Take 4pcs screws &4pcs nuts out from the bag .
3. In accordance with the direction of the arrow shown,put the nut into
　the screw of the external power
　The direction shown by the arrow.put the screw into the　screw jack
　of the fixed-disk mount
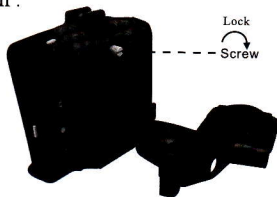　Finally fixed the external power backup & mount with a screw driver
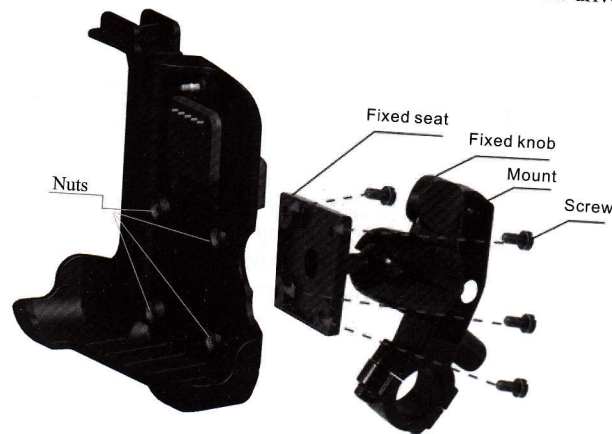
Note:Customer should buy a screw driver by themself

B) Install the machine to the external power backup
1. Install the machine to the credle as shown .
2. And then rotated the screw according to
L direction,until it is fixed with machine

C) Install the mount to the motorbike handlebar
1. Place the mount in proper position.
2. And then take it off from the U-shape mount
3. As shown, At last fixed U-shape mount & handlebar with screws
Note: when the user install need to consider the location of installation
to make sure safety,also need pay attention & take on the duty by yourself

D) Connected the external power backup with the external power device
1. Connected the power line of the backup with the external device
2. Tighten the waterproof ring according to picture shown

E) Connected the external devices with the power of motorcycle.
1. Connected the end line of the external devices with the motorbike's power

Note: when the user connected the power,please consider the right position,it
is the best if the relevant technician can help you, because of you personal
fault,you should take the responsibility for yourself.

End line of the external power

Power Supply

The device has two ways of power supply:battery supply and power supply.
(1)Lithium battery
When the device doesn't connect with the adaptor, it is supplied by the
lithium battery.
(2)AC adapter (usualy optional)
When the device connects with the adaptor, it is supplied by the outer power
supply.

Tips:Under normal condition(volume and backlight at 50%),it can last about
6~7 hours After the battery is fully charged. Some functions need to
consume a lot of battery energy, Such as music/video playing, height
backlight, which may reduce the using time.

Charge

1.Install the GPS to bracket and make sure there is a well connection
between host and bracket power connector
2.Make sure the device connector has been locked in order to avoid the water
entering and lead short-circuit.
3.Connect the input end to the device storage battery, tie the charger cables to
the device body in case of cable shaking and the influence driving.

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 signal 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 stoping 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

Features:

- 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, automatic smooth switching.

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

- Prompt and accurate positioning 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.

- Scientific calculation: embedded calculator, a good business assistant.

- The FM transmitter designed for use in a car with car stereo is not controlled with volume of the device.

- Personalized function setting: Language selection, Backlight brightness adjustment; Power management, Coordination calibration.

- A user friendly feature is GPS "hold On". With this feature, you may use the device for other applications, like music, e-Book, except for Falsh, by pressing Return button on the device to switch GPS application to background and keep it running without exiting from GPS application during the same time.

Function Description

Warnings:

- Please install the device in a right way to avoid driver's sight and airbag to be hindered. Any loss or damage of product, passengers, or other property caused by mistakes of mounting or installing of the device will be not covered within the warranty and not be the responsibility of the manufacturer.
- Please not put on earphone and operate the device when you drive or ride a bike to ensure your safety.
- Please consult with airline crew for application of the device if you want to use it during flight.
- Please keep the device far away from strong magnetic field which may cause damage or malfunction to the device.
- Please protect the device from being dropped, shocked or scratched on or by hard objects to avoid possible damages (scratches on the device face, loose contact of the battery, data loss or other hardware part broken) to the device.
- Please not use earphone with a continuous and large volume for long time, set the volume at a moderate loudness and use it not for a long time to avoid possible damage to your ear audibility.
- Please not use chemical solution or cleaner to clean the device to avoid possible damage to the paint and polish of its surface.
- When the device is used as a mobile storage device, please follow right procedures of file management operation to copy or transfer files. The warranty does not cover any mistake, or damage, or loss of files.
- It will be better for you to make a backup copy of your personal files in the device into your PC or laptop in time.
- It is prohibited to use higher voltage power supply, to bent or squeeze the power cord with big force so as to avoid possible damage and overheat resulting in fire.
- Never use wet hands to pull out or plug in the power plug to avoid possible electric shock.
- Not use the device in an environment over 60° , or below -10° , and with high humidity as well.
- The content of this manual is subject to definition, or interpretation, or modification from time to time for improvement on features and function without prior notice.

Function Description

Illustrations on screen display:

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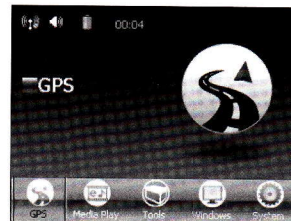
Under this UI, click icon down the screen to enter the function page. Then there will be Looped playback of cartoon, click it to entry this function. If you click the icons beside the function icon you can enjoy the cartoons. If you click the arrow up the corner you can turn pages to view, which accompanies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

Secondary UI

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.

Battery

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.

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).

USB jack

Inserting into car
cigarette lighter jack
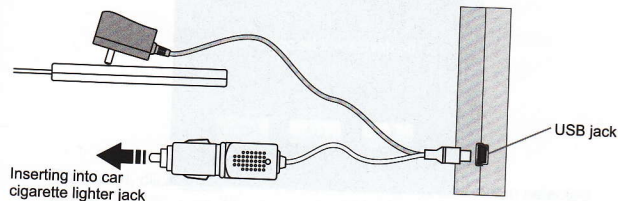
⚠️ **When you use car charger, please start car engine first, then connect it to the device to avoid possible damage to the device due to overloaded pulse current during ignition. Please pull it out when you stop the engine, and plug it in again after next ignition.**

Function & Operation

Power On the device

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

Sleeping & Power –off

In power-on 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:

The device will be power off in

08 s
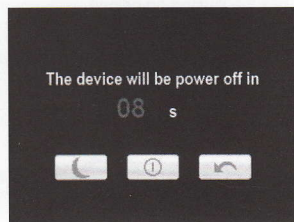
In this UI click the button [ ] will be in sleeping mode, click the button [ ] will power off ; click the button [ ] to exit the UI and back to normal operation.

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 the procedure in operation will pause but will back to normal status after waking up.**

Function & Operation

Music Playback

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

◉ **Operation：**
On system main menu, click [Media Play] icon to play music. Screen display is shown as the illustration below:
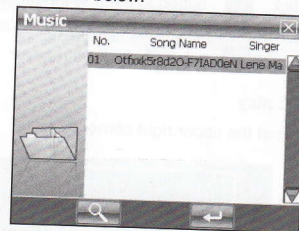
On this UI, click [ ] button to search for music files not in selected folder; click [ ] button to close this window and exit musi play mode; double click, or select then click [ ] button to play this music file. Music play mode is displayed as following diagrams:

Function & Operation

⊙ **Button and control in Play Mode:**

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

⊙ **Exit from Music play**

Click [X] button at the upper right corner to exit.

Function & Operation

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 [Media Play] icon to enter into Video Playback application.Display of UI for file selection:
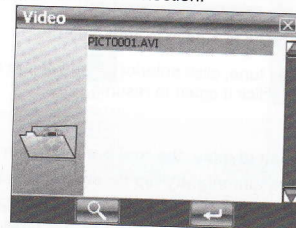
On this UI, click [icon] button to search video files not listed in the appointed video file folder; Click [X] button to close and exit from Video Playback application; Double click or select and click [icon] button to open and play this file.
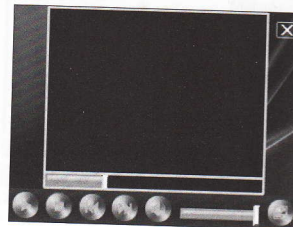
Function & Operation

◉ **UI and button definition:**

- Play
- Pause
- Stop
- Close
- Next
- Previous
- Full screen display

Play Progression, drag to a point to start play.

Volume tune, click anterior to set into mute status, click it again to resume.
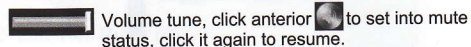
> ⚠️ ◉ In full screen display, the tool bar at screen bottom will be hidden, you can slightly tap on screen to get it.
>
> ◉ It will take a few minutes to search fies when video play mode starts if this application has not been used for a long time.

Function & Operation

eBook Reading

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

◉ **Operation:**

On system main menu, click button to enter into eBook Reading application. Display of UI for file selection:


```
E-Book
10.TXT
120.TXT
140.TXT
170.TXT
230.TXT
320.TXT
390.TXT
400.TXT
45.TXT
479.TXT
```
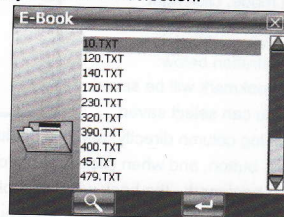
On this menu, click button to search for txt files not in selected folder; click button to close this window and exit file reading mode; double click button, or select then click button to open this file. The screen display is shown as follows:


```
Page:1/1
AKRT-AA58 AUTO
J6SB-8EY6 AUTO
```
- Close button
- Bookmark button
- Jump button
- Previous button
- Next button
- Switch decoding way

Auto. Manu. Big Font Small Font
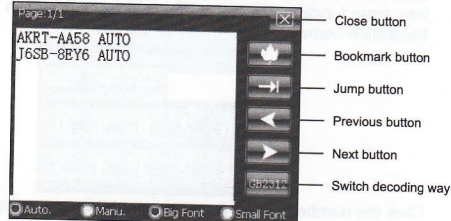
Click or button to turn page up or down; "Manual/Automatic" is set for selecting Manual or Automatic page turning; Font is for selecting letter size of display.

Function & Operation

◉ **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.
Operation:
In eBook Reading mode, click right
▧ button to enter into bookmark setting, display of dialogueblock is shown as in the illustration below:
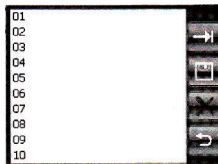
click ▧ button, a bookmark will be saved

for current page. you can select saved

bookmark in the dialog column directly, and this bookmark could be

deleted by click ▧ button, and when click ▧ button, it will jump to

related page of this bookmark, the book will quit bookmark setting

and return to normal reading status when click ▧ button.

◉ **Jump to the appointed page**
This is for jumping to the appointed page when reading a voluminous article and no bookmark is set.
Operation: In eBook Reading mode, click right ▧ button to enter into Jump function, display of dialogue block is shown as in the illustration below:
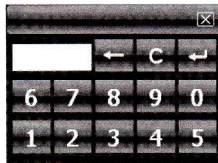
Click the number key on screen to input the page number to jump to,

when inputting, click ▧ button to backspace for deleting; click ▧

button to clear input block, after inputting page number click ▧ button

to jump to the page of selected number.

Function & Operation

● **Switch decoding way**
Click ▧ on the icon to switch decoding way, traditional and some special words and symbols of the country need to use this switch transcoding to normal display. Click ▧ on the icon to return.
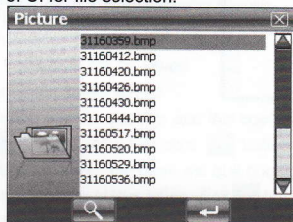
Function & Operation

Photo Display

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

⊙ **Operation:**

On system main menu, click [Media Play] icon to enter into Photo Display function. Display of UI for file selection:

```
Picture                                    ☒
31160359.bmp
31160412.bmp
31160420.bmp
31160426.bmp
31160430.bmp
31160444.bmp
31160517.bmp
31160520.bmp
31160529.bmp
31160536.bmp

            🔍            ↵
```

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:

Function & Operation

⊙ **Operation under photo view**

Then, click [◄◄] or [►►] button to select previous or next photos; 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.

Function & Operation

Calculator

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

◉ **Operation:**

In the system UI, click the icon [Tools] to open Tools, then find the icon

and click it 🔲 to activate the function of Calculator.

0.				✕
7	8	9	÷	←
4	5	6	×	1/X
1	2	3	+	-
AC	0	.	±	=

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.

Function & Operation

FM Transmission(Optional)

This feature is designed for transmitting the sound of this device at a set frequency to your car FM radio receiver, then you can hear from your car stereo system, and get it at volume set by the car stereo system.

◉ **Operation:**

In the system UI open the Tools then find the icon 📶 to activate FM. It will be illustrated like below:

Then you may select "Open Channel" or "Close Channel", when select "Open Channel", you may also select device speaker on or off. It is suggested to close the device speaker when "Open Channel" is selected.

FM	✕
Frequency: 98.8Mhz	
▬▬▬▬▬▬▬▬▬▬▬▬	
➖	➕
○ Open FM	
◉ Close FM	
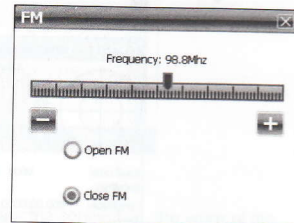
Press ➕ or ➖ button, or directly drag the slide bar to set FM transmission frequency, then turn on car radio FM receiver and tune it to the same frequency as the transmission, then you may get the sound from the device.

◉ **Staus Display:**

When FM transmission is on, you may see an icon on the main menu screen:

📶 FM transmission is on, the device speaker is off   📶 FM transmission is on, the device speaker is on   📶 FM transmission is off, the device speaker is on

In addition, on main menu, click these icon you may enter into FM transmission mode directly.

⚠️ **Warning: Remember to get the device charged to enhance its performance when you activate FM.**
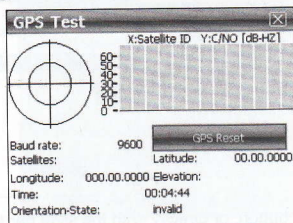
Function & Operation

GPS Test

It is to check some data, such as the strength of receiving signal, and the numbers of satellites.

◉ **Operating method:**

In the system UI, click the icon [Tools] to open workbox, then find the

icon and click it to entry the function of GPS Testing. It will

display as follows:

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" button before searching would save much time.

Function & Operation

Bluetooth Function

In the system UI, click the icon [Tools] to open workbox, then find the

icon and click it to entry the function of Bluetooth Function. It will

display as follows:
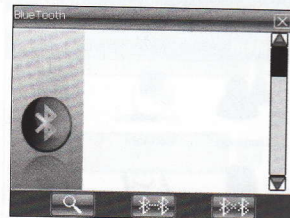
:Bluetooth search;

:connecting mobile phone. After the connection, the voice of the machine will be transferred to the connected devices.

: Disconnect the bluetooth.

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 [Windows] 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. GPS_MAIN

Function & Operation

System Setting

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

◉ **Operation:**
On system main menu, click [System] icon to enter into system setting. Screen display is shown as the illustration below:

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

◉ **Language Setting**
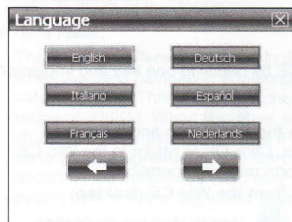This is for setting of system language, screen display is shown as the illustration below:

Click the icons of the corresponding language in this interface or choose the interface project, the system will save the setup automatically when the setup is closed, and return to the previous menu. (The system will be required to restart after the interface project is changed.)

Function & Operation

◉ **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. Screen display is shown as the illustration below:
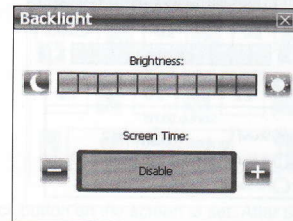
Then, drag the slide block to set. Select No Screen Saver, then the screen saver will be disabled. After setting, close the current window to save.

◉ **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.
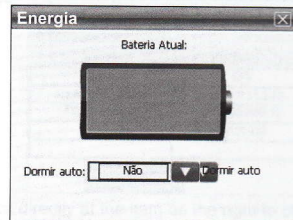
In drag menu to select time, select "No" for disabling this feature. After setting, close the current window to save.

Function & Operation

⊙ **Sound Setting**

This function is for setting start-up music, clicking volume and the whole volume. After entering the screen shows like below:

Lick "Screen sound" in this interface to enable or disable the sound of screen operations, "Open TTS" is to enable the speech broadcasting function. TTS speech engine gives a clear broadcasting of the function name every time you enter into a function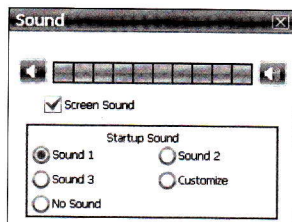. English and Chinese speeches are supported for the moment. You can listen to the sound by clicking the start-up sound directly; and the general volume can be adjusted by dragging the slide directly.

Function & Operation

⊙ **Time Setting**

This is for setting time of the system. After entering into this UI, screen display is shown as the illustration below:
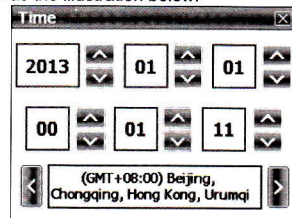
On this UI, click button on the screen to set. After setting, close the current window to save.

⊙ **System Resources**

This is for checking system resources:

On this UI, click directly at the item on the right to check.

Function & Operation

◎ **Coordinates Calibration**
This is for calibrating the stylus coordinates on touch screen. After entering into this UI, screen display is shown as the illustration below:

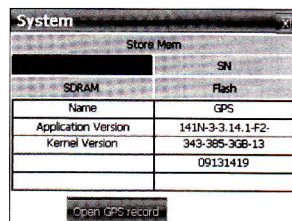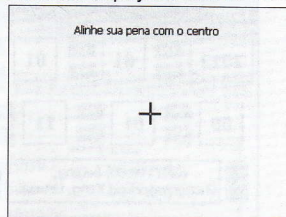On this UI, use stylus to tap at the center of the cross, then tap on other crosses which will move after each tapping until finish and "Touch Screen Calibration Completed" is shown.

◎ **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 :
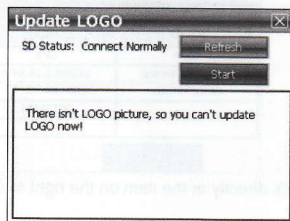
Function & Operation

If there is no logo file in the current SD card, please copy the logo file into it or change another SD card having upgrade file, then click Refresh button, you may see this upgrade file. During upgrade operation, click Start button, then a dialogue frame will pop up, shown as the illustration below:

你确认要升级吗?

Then click [ ] button to cancel upgrade, or click [ ] to proceed with the upgrade processing.

⚠ **Warning: please be sure that the battery is being full when you are updating. If not, please get the device charged.**

◎ **GPS Path**
Using this function is to set GPS path for your navigation. Screen display will show as follows:

GPS Path
NandFlash\
SDMMC\

Format   Back   GPS Path
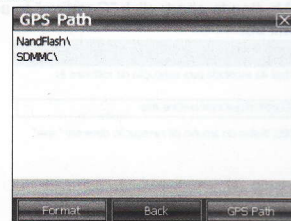
Files listed on the present screen belong to the saved ones in SD card, so click them can read the file.

Function & Operation

- Select GPS Software

  If there are two or more maps from different companies on an SD card, then this feature can help you select each of them easily.

  The way to Select: In SD card directory, open the file folder to find the map to be used, select navigation software of .exe.

  (which has different names from each different company, please refer to details from each company of these navigation software. e.g. Careland has WINCE_GPS.exe), then select and click [GPS Path] button, a dialogue frame will pop up on screen, as it shown below:

Atual via escolhida para execução de software é:

¥SDMMC¥GPS¥WINCE_GPS.exe

OBS: Sufixo do arquivo da navegação deve ser ".exe"

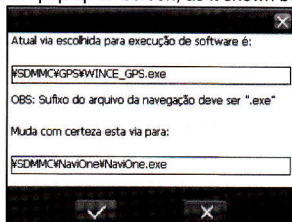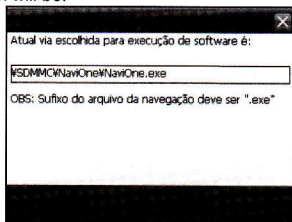Muda com certeza esta via para:

¥SDMMC¥NaviOne¥NaviOne.exe

Then click "Cancel" button to abort; click "Cornfirm" to accept, then display on screen will be:

Atual via escolhida para execução de software é:

¥SDMMC¥NaviOne¥NaviOne.exe

OBS: Sufixo do arquivo da navegação deve ser ".exe"

Click [X] button on the upper right corner to return to GPS path UI.

Function & Operation

- ⊙ **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. Pictures are shown as below:

USB

MASS STORAGE

ACTIVESYNC
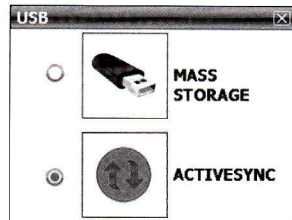
Click the desired connection mode and close the window to save the chosen mode.

Services

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!**

Services

Specifications

CPU	Mstar MSB2531,ARM Cortex-A7 CPU
Memory	2GB/4GB/8GB
Antenna	Built-in antenna
Memory Card	Applicable for a Maximum up to 8GB SD card
Screen Type	TFT Touch Screen
Screen Size	3.5"
Screen Color	65K colors
Dot Matrix Display	320×240
Extension Slot	Micro SD
Battery Type	Removeable Li-ploymer batter
Battery Capacity	2300mAh+

Services

Trouble Shooter

No.	Fault	Possible Cause	Solutions
	No power on	Battery drained (The screen has no further display after a blink when pressing power on button.)	Please refer to the description of battery charging in this manual, only use the enclosed charger to charge the device.
	Dead Unit	The start interface stays on the screen for long time without changing.	Take out the battery, then put it back, start the device again.
		No display of the screen, or display on screen is frozen as any button is pressed.	Press and hold the power on button for 5 seconds, then release it to power on.
			Take out the battery, then put it back, start the device again.
	Error in upgrade	Dead or frozen during upgrade, display on the screen is frozen and no button works.	This fault can only be fixed by the manufacturer. Please return for repair.
	Impossible to recharge	During charging, the green LED indicator of the device has no light or no charging sign displayed on the screen.	If the charger is connected properly and powered.
			Charger is damaged.
			Battery is damaged or full charged.
			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.