

# LOKATO

*... getting you there*

## A900 Series GPS Navigator Hardware User Version 1.11



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- iii) The contents of the manual may be modified without further notice.

## **TERMS & CONDITIONS**

1. The maps data and/or preloaded software (“Software”) in this device are licensed by third parties to Amtel Cellular Sdn Bhd (“The Company”). The Software is sub-licensed on a limited, non-exclusive, non-transferable and revocable basis for use by you solely on this device only and is not sold together with the device. If upgrades, updates or supplements to the Software are obtained, the use of such upgrades, updates or supplements is governed by these Terms and Conditions and any amendments that may accompany them and may be subject to additional payments and conditions. You must not reproduce, distribute, publish, transmit, modify, adapt, translate, display, distribute, sell, license, publicly perform, prepare derivative works based upon, or otherwise use or exploit the Software. The foregoing limited right does not give you any ownership of Software and nothing contained in this Agreement may be construed as conferring to you any licence or right to the Software under any copyright or any other intellectual property right.
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4. The maps and any information stored in this device is strictly a navigation guide for reference use only. It is the sole responsibility of the User's to use this device prudently. Information provided may change over time and you should decide the route based on the actual road conditions and traffic laws. The Company makes no representation or warranty, whether expressly or impliedly as to the accuracy, completeness, timeliness, reliability or fitness for any particular purpose of the maps stored therein.
5. The planned, shortest, quickest routes and estimated time to desired destinations are obtained from optimal route calculations based on the map database and should be used as a reference only. This device must not be used for any purpose requiring precise measurement of direction, distance, location or topography.
6. Do not fix or mount the device on such part of the windscreen that will interfere with driving of the motor vehicle or be hazardous or dangerous to the driver or occupants in the motor vehicle. User shall be responsible for his/her use of the maps stored therein and the device, and shall at all times comply with all traffic laws and regulations of the country of usage.
7. The usage of this device is dependent on the Global Positioning System (GPS) which is operated by the United States government and is solely responsible for its accuracy and maintenance. The system is subject to changes which may affect the performance and accuracy of the GPS navigator devices.
8. The use of the device is at the User's own risk. Lokatoo and the company is not liable for any fines, penalties, damages or loss whether direct, indirect, incidental, special, exemplary, or consequential damages however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of the device.

## **Lokatoo A900 Series GPS Navigator Product User Manual**

This *User Manual* describes the settings and functions of your A900 Series GPS navigator. Read this guide in its entirety before attempting to use or configure the device.

Before getting started, check that each item listed below in the package contents is accounted for and observe the outward features of the device.

### **Package contents**

Standard Package:

- The Lokatoo **A900** Series GPS navigator
- Stylus
- Holder
- In-Car Charger
- Travel Adaptor
- USB cable
- Map & manual CD
- 1GB SD/MMC Card containing navigating system software and map data

## Precautions and Notices

- ◆ For your own safety, do not operate the controls of the product while driving.
- ◆ When you get off the car, do not leave your device on the dashboard that is subject to direct sunlight. The overheating of the battery can cause malfunction and/or danger.
- ◆ Global Positioning System (GPS) is operated and managed by the United States of America Department of Defense, which is solely responsible for the performance of GPS. Any change or modification may affect the accuracy of the GPS and its related systems.
- ◆ GPS satellite signals cannot pass through solid materials (except glass). When you are inside a tunnel or building, GPS positioning is not available.
- ◆ A minimum of 3 GPS satellite signals is needed to determine current GPS position. Signal reception can be affected by situations such as bad weather or dense overhead obstacles (e.g. trees and tall buildings).
- ◆ Other wireless devices in the vehicle might interfere with the reception of satellite signals and cause the reception to be unstable.
- ◆ A car holder is needed when using the device in a car. Be sure to place the device in an appropriate place, so as not to obstruct the driver's view, or deployment of airbags.
- ◆ Please remove SD/MMC card only when the device is in power off status.
- ◆ When USB transmitting, **Do Not** disconnect the USB cable. When other applications are operating, **Do Not** connect USB cable.
- ◆ The navigation software may be updated from time to time. If the description shown in this manual is different, please follow the software version currently on hand.

## CONTENTS

Usage Guideline for Extended Battery Life	07
Getting to know your Lokatoo A900 Series GPS navigator	08
Connecting External Antenna (Optional)	10
Connecting the In-Car Charger	11
Connecting to USB and charging the device	12
Connecting to Travel Adaptor and Charging the Battery	13
Using Your Device in a Vehicle	14
Using A900 Series GPS Navigator	16
Navigation	16
Using the Music player	16
Using the Video player	18
Using the Photo viewer	19
E-book	20
System Setting	21
Volume Setting	21
Power Setting	21
Backlight Setting	21
Time Setting	21
Language Setting	22
System Information	22
System Specifications	23
Troubleshooting	24

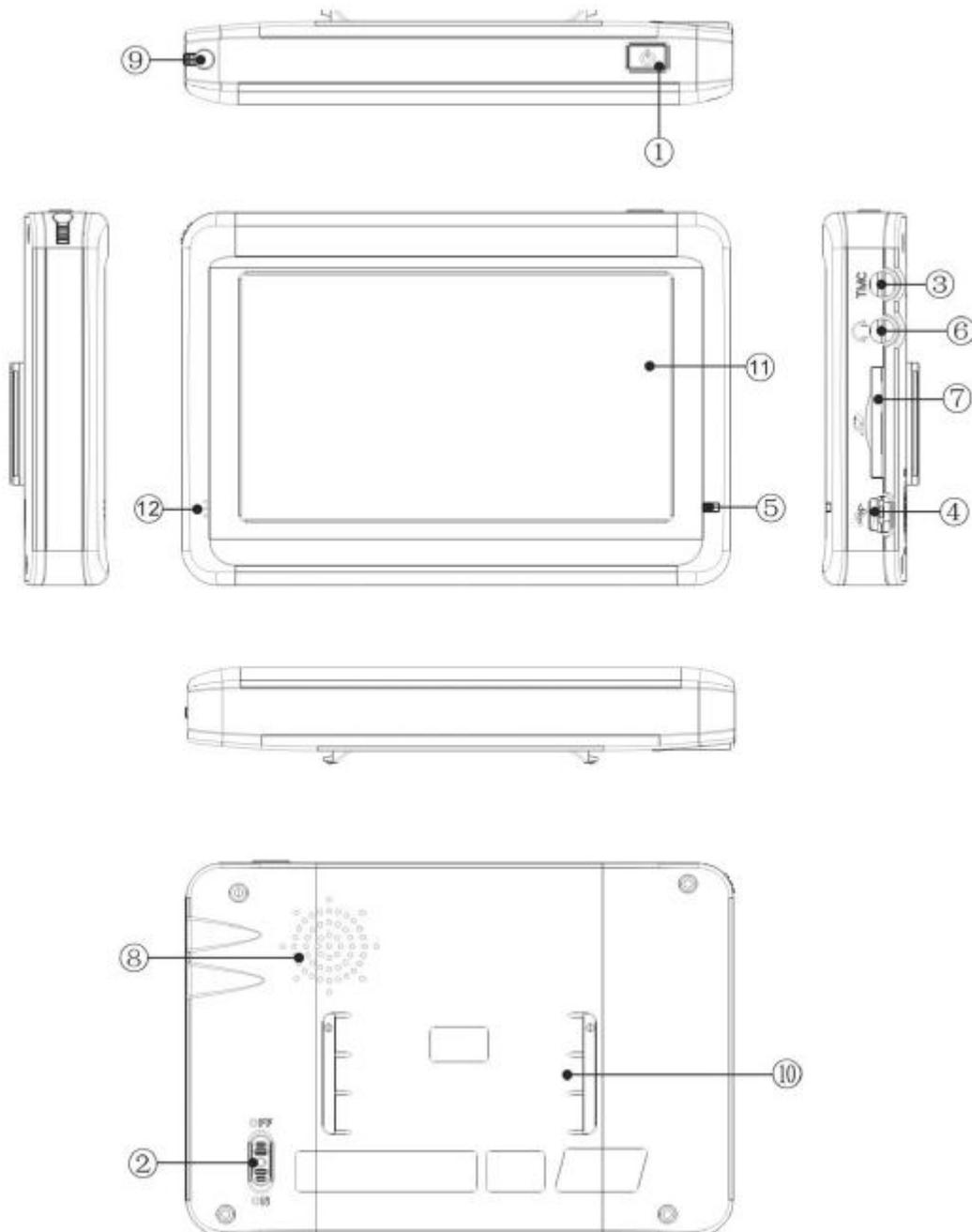
## Usage Guideline for Extended Battery Life

For optimal performance of the Li-polymer battery, take note of the following:

- ◆ This unit contains a non user replaceable internal Li-polymer battery. The battery can inflate and release hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.
- ◆ The icon  at the top right corner on the main interface of system indicates the current remaining power.
- ◆ Disconnect device from charger when it is fully charged. Battery may damage if it is over charged.
- ◆ Do not immediately turn on your device after connecting the Travel Adaptor to charge a power-depleted battery. If you need to turn on the device again, wait for at least one minute.
- ◆ Do not charge the battery where the temperature is high. This may be harmful to the battery. (e.g. in direct sunlight).
- ◆ There is no need to fully discharge the battery before charging. You can charge the battery even if it is only partially discharged.
- ◆ If you do not use the product for a long period of time, charge the battery at least once every two weeks. Over discharge battery can affect the charging performance.
- ◆ **Only connect the In-Car Charger to the device after starting the car. Failure to do so may cause irreversible damage to the device.**

# LOKATOO A900 Series GPS Navigator

## Getting to know your Lokatoo A900 Series GPS navigator



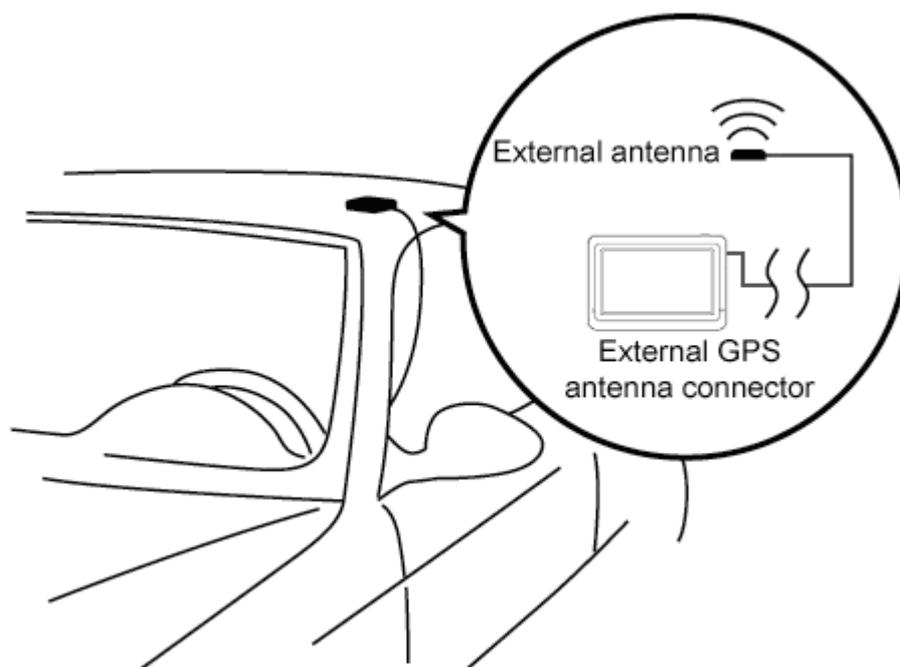
# LOKATOO A900 Series GPS Navigator

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<b><u>Component</u></b>	<b><u>Description</u></b>
<b>[1] Power button</b>	Press the power button for a few seconds to turn on and off your device. When you press the power button to turn off the unit, your device actually enters a suspend state and the system stops operating. Once you turn on the system again, it resumes.
<b>[2] Master Power Switch</b>	The main power/battery cutoff switch. When switch off the master power, the date and time will be reset. When the system is not responding, slide the master power switch off and on back to restart the system.
<b>[3] External Antenna Connector (TMC)</b>	This connector allows the use of an optional external antenna with magnetic mount, which may be positioned on top of the car for better signal reception in areas with poor reception.
<b>[4] Mini-USB Connector</b>	Connects to the USB cable.
<b>[5] Charge Indicator</b>	Static red to indicate that external power is connected and charging. Static green indicate a fully charged battery.
<b>[6] Headphone Connector</b>	Connects to stereo headphones
<b>[7] SD/MMC Card Slot</b>	Accepts a SD (Secure Digital) card for accessing data such as MP3 music.
<b>[8] Speaker</b>	Sends out music, sounds and voice.
<b>[9] Stylus</b>	To enter input via touch screen.
<b>[10] Holder bracket slot</b>	To attach the device to the holder.
<b>[11] Display screen</b>	The display screen is also a touch screen for inputting.
<b>[12] Microphone</b>	To enter input via voice. (dependent on software capability)

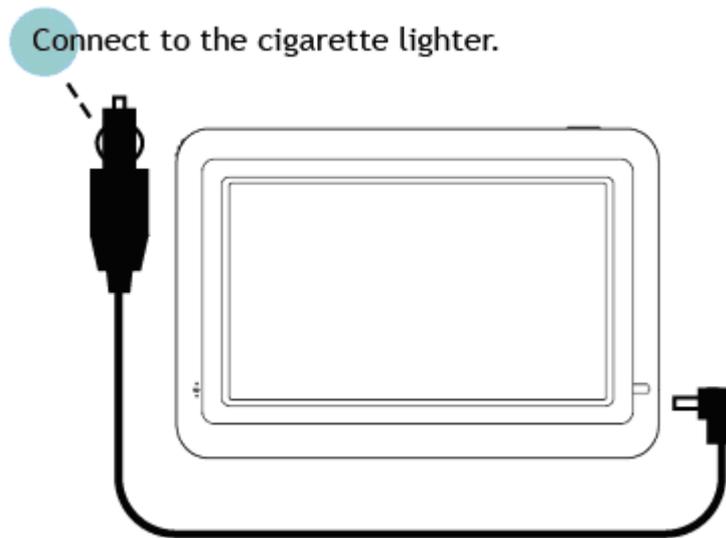
## Connecting External Antenna (Optional)

Place the device in such a way that the external antenna wire is routed conveniently out the driver's side window. The magnetized antenna casing will attach firmly to the roof of your car.



**Connecting external GPS active antenna (Optional Accessory)**

## Connecting the In-Car Charger



Connecting the In-Car Charger

The car charger supplies power to your device when you are using the device in a car.

**CAUTION:** In-Car charger output is 12V DC, do not use this car charger for other device.

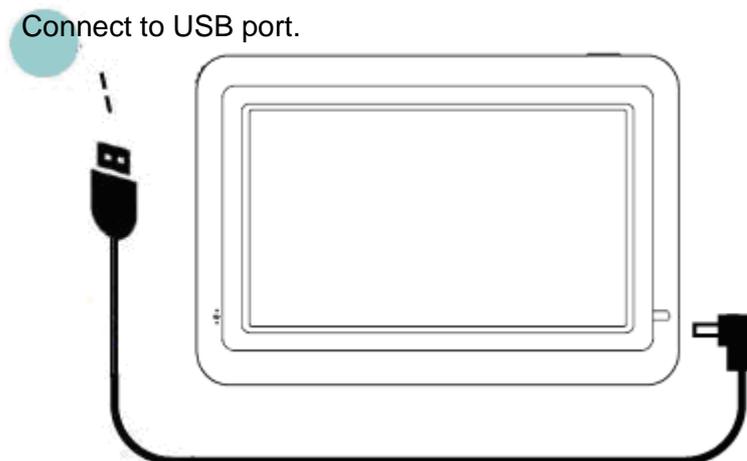
1. Connect one end of the In-Car charger to the power connector of your device.
2. Connect the other end to the cigarette lighter in the car to power and charge your device.

### **Important**

Only connect the In-Car Charger to the device after starting the car. Failure to do so may cause irreversible damage to the device.

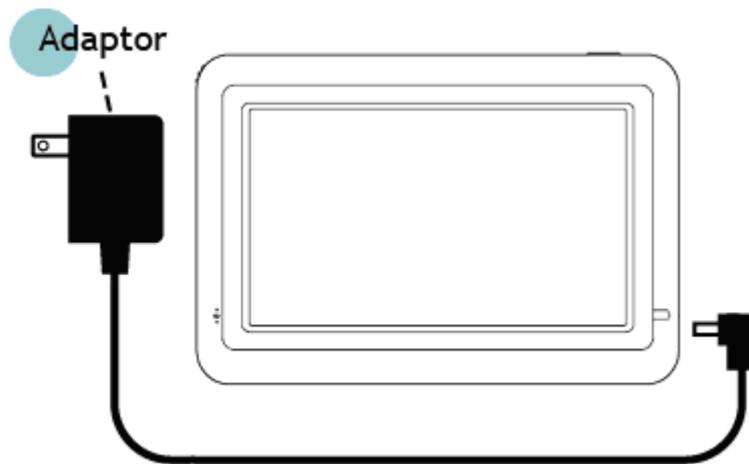
## **Connecting to USB and charging the device**

You can charge battery through USB connector. Connect your device as below picture. For short charging time, please turn off device while charging through USB connector.



**Connecting the USB Cable**

## Connecting to Travel Adaptor and Charging the Battery



### Connecting Travel Adaptor

When charging the battery for the first 3 consecutive times, you should charge it for at least 8 hours.

1. Connect the adaptor cable to the mini-USB connector.
3. Plug the Travel Adaptor into a wall outlet.

The charge indicator display static red when charging is in progress. Static green will indicate a fully charged battery.

#### **NOTE:**

- ◆ Do not immediately turn on your device after connecting the Travel Adaptor to charge a power-depleted battery. If you need to turn on the device again, wait for at least one minute.

**CAUTION:** For optimal performance of the Li-polymer battery, take note of the following:

- ◆ Do not charge the battery where the temperature is high (e.g. in direct sunlight).
- ◆ There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.
- ◆ If you will not use the product for a long period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect the charging performance.

## Using Your Device in a Vehicle



Using the Holder

### **Mounting on the Windshield**

1. Clean the windshield where you will apply the suction cup. Then, attach the suction cup firmly to the windshield and turn the locking tab to secure the cup.
3. Carefully fit your navigator into the Holder.

### **CAUTION:**

After the suction cup is secured to the windshield, never try to pull or wriggle the arm. Always adjust the arm of the car holder for the best viewing angle BEFORE driving. Do not adjust the device with one hand while driving.

### **Using the Holder**

Use the Holder to fix your device in a vehicle. Make sure that the device has a clear view of the sky.

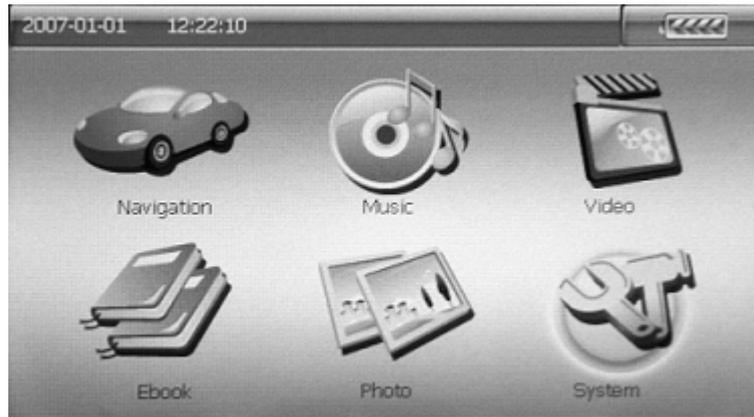
For initial positioning, remain at the same spot with a clear view of the sky. The GPS may take a few minutes to find its current location initially.

**CAUTION:**

- ◆ Select an appropriate location for the Holder. Never place the Holder where the driver's field of vision is blocked.
- ◆ If the car's windshield is tinted with a reflective coating, an external antenna (optional) may be needed to route the antenna to the top of the car through a window. When closing the car window, be careful not to pinch the antenna cable. (Cars with an anti-jam window design may automatically leave adequate space as needed.)

## Using Lokatoo A900 Series GPS Navigator

The device supports **Navigation**, **Music** and **Video** playback, **E-book**, **Photo** viewing, outer TMC and system setting functions. The **Main menu** is as follows:



### **Navigation**

On the **Main menu**, tap **Navigation** to launch the navigation software.

### **Using the Music player**

Click **Music** icon to access music file(s).

The function of each icon is as below:

	Return to Main menu
	Scroll up
	Scroll down
	Up to root folder and Main menu



Click the music file that you intend to play and the Music player will be launched.

The function of each icon is as follow:

-  Return to Main menu

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-  Play

---

-  Pause

---

-  Stop playing

---

-  Repeat all the songs

---

-  Shuffle all the songs

---

-  Play previous song

---

-  Play next song

---

-  Volume control

---

-  Playback progress bar

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-  To display folder

---

-  Lyric

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-  Song title



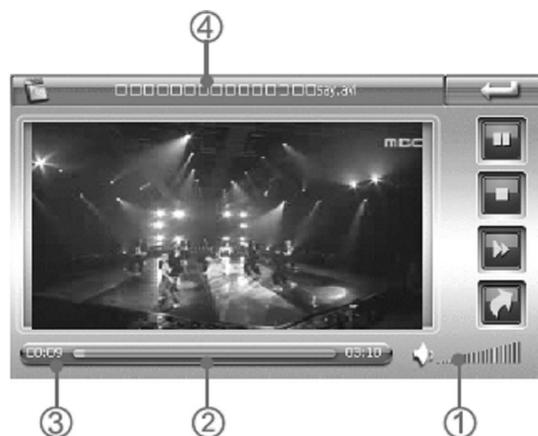
 Tips	<p>[Tips] Music player contains the function of lyric synchronization. Please copy both the music and lyric files (LRC format) to the same folder in the SD card, and make sure their file names are the same.</p>
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## Using the Video player

1. Click the **Video** icon on the Main menu to access video file(s).
2. Click the video file that you intend to play.

The function of each icon is as follow:

	Return to Main menu
	Play
	Pause
	Increase playback speed
	Stop
	Up to root folder and Main menu
①	Volume control
②	Playback progress bar
③	Playback time
④	Video title



 Tips	[Tips] Double click the video area to switch between full screen and normal playback mode.
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## Using the Photo viewer

Click the **Photo** icon on the Main menu to access photo file(s). The function of each icon is as follows:

	Return to Main menu
	Scroll up
	Scroll down
	Up to root folder and Main menu
	Run Photo browser



Run Photo browser by clicking the photo file. The function of each icon is as below:

	Return to Main menu
	Zoom Out
	Zoom In
	Rotate photo
	Slide show (in full screen)
	Previous photo
	Next photo
	Up to root folder



### [Tips]

Under the full screen mode, double click the photo to return to normal mode.

## E-book

Click **E-book** on the Main menu to access E-book file(s).

-  Return to Main menu

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-  Scroll up

---

-  Scroll down

---

-  Up to root folder and Main menu



Click E-book folder to open the reader

-  Return to Main menu

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-  Page up

---

-  Page down

---

-  Up to root folder and Main menu

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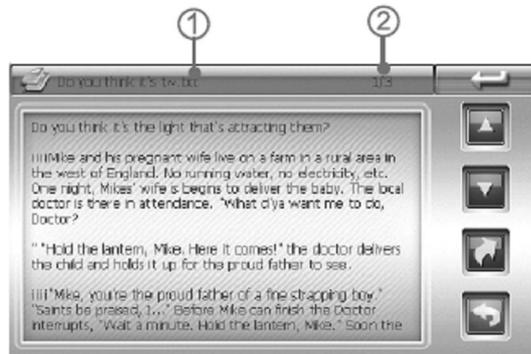
-  To enter specific page number

---

-  File name

---

-  Page number



Click  to enter into the page selecting page.

-  Display entered page number

---

-  Backspace

---

-  Clear

---

-  Move to the preferred page number



## ***System Setting***

Click **System** icon from Main menu to enter system setting page. Here you can set the volume, power, brightness, language, time and date, view system information and perform touch screen calibration.

## ***Volume Setting***

Click **Volume** to enter the volume setting page. Click  to increase and  to decrease the volume.

## ***Power Setting***

Click Power to enter the power setting page. Power status bar will be displayed and user can adjust the time to be taken for the device to enter sleep mode automatically when running on battery by clicking  or .

## ***Backlight Setting***

Click **Backlight** to enter backlight setting page. The user can adjust the brightness by  and , or can click  or  to set the time for the device to turn off the screen automatically.

## ***Time Setting***

Click **Date Time** to enter date and time setting page. Screen will display the current time, date and time zone.

Click ,  or  to set up the time, date and time zone respectively.

 Tips	[Tips] In most cases, user do not need to adjust the date and time. When the device is connected to GPS satellite, the current date and time will be downloaded to the device.
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## Language Setting

Click **Language** to enter language setting page.  
 Choose the desired language from the list. There are 2 languages available: English and simplified Chinese.

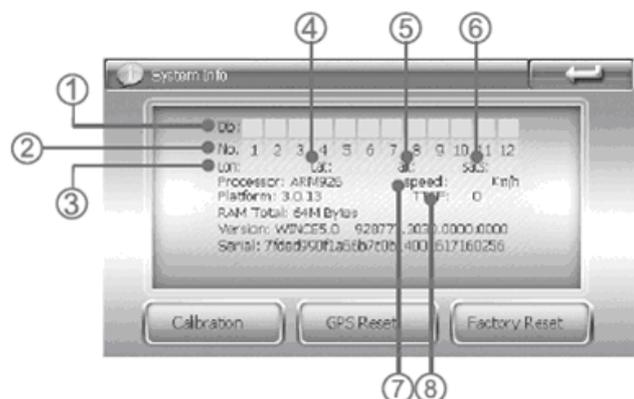
**Note:** Command shell languages are different from Navigation voice language.

## System Information

Click **Sys Info.** to enter system information page.

1. Click **Screen Calibration** to calibrate the touch screen. Press and briefly hold a stylus or any similar non-marking instrument to the center of the target. Repeat as the target moves around the screen. When the calibration is complete and you are instructed to press enter, simply tap once more anywhere on the screen.
2. When **Factory Reset** is pressed, the device will go back to the factory default setting.
3. Click **GPS Reset** to clear up the Signal-to-Noise of the data received.

①	Signal distortion ratio
②	Satellite path
③	Longitude
④	Latitude
⑤	Altitude
⑥	Number of satellite
⑦	Vehicle speed
⑧	Time to first fix



## System Specifications

<u>Category</u>	<u>Item</u>	<u>Specifications</u>
Dimension	124 x 85 x 20.5mm	
Net Weight	218g	
System	OS	Windows CE5.0
	CPU Frequency	Centrality Atlas III: application processor @ 400MHz
	SD RAM	64MB
	NAND Flash	64MB(slc)
	External Memory	1GB SD/MMC provided (upgradable to 4GB)
Media Function	Video	ASF, AVI, MP4, 3GP, WMV
	Music	MP3, WMA, WAV
	Photo	JPEG, BMP, PNG
	E-book	TXT
Com. Shell Language	2 languages available	English & Chinese
Power	AC Adapter	Input: AC 100-240V, Output: DC 5V / 2A
	Car Charger	Input: DC 12-24V, Output: DC 5V / 1.5A
	Battery	3.7V / 1700mAh
	Navigation time	3-4 hours
	Power Saving	Automatically standby mode, screen protection (blank screen)
Display	Specification	4.3" TFT-LCD, 4.3" 4-line-resistance touch screen
	Pixel	480 x 272 (RGB)
GPS Module	Frequency	1575.42MHz
	Channels	20 channels
	Sensitivity	-157dBm
	Precision	Position: < 10 meters
	Start-up time	Hot start: ≤ 3 sec, average
		Warm start: ≤ 38 sec, average
		Cold start: ≤ 43 sec, average
Refreshing rate	1 / second	
Temperature	Working temperature	-20°C to 70°C
	Storage temperature	-25°C to 75°C
USB		USB 2.0 full speed

## Troubleshooting

If the device does not work smoothly, please inspect it according to the following method. If problems still persist, please contact our Customer Service Hotline or Service Centre.

<u>Problem</u>	<u>Reason</u>	<u>Solution</u>
Cannot power on	Battery low power	Charge the battery
Power off suddenly	Battery low power	Charge the battery
Touch screen deflected	Calibration is not precise	Perform screen calibration
No sound when playing	Volume is too low	Increase the volume
	Poor connection between the earphone and device	Insert the earphone properly
Can't connect with PC	Poor connection of the USB cable	Connect the cable properly
Unable to charge	AC adapter is not connected properly	Check the connection and ensure that the charging indicator is light up.
Power Key invalid, touch screen and display abnormal	The system crashes	Turn off the device using master power switch and turn it on back.
Can not receive GPS signal	Depending on the intensity of the local signals. It will take about 1 minute to receive the signal	
Map data missing	Format and copy the map data to the SD/MMC card. Contact with local retailer or distributor. You need to enter the activated code to activate the map.	

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