

# NAVMAN WIRELESS M-Nav760

## Personal Navigation Device

### Reference Manual



# Legal Notices

## Copyright

NAVMAN WIRELESS M-Nav760 Portable Navigation Device User's Guide Original issue: October 2009

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<p><b>NOTE :</b> Record the device ID, serial number, purchase date, and place of purchase information in the space provided below. The serial number is indicated on the label affixed to your NAVMAN WIRELESS device. All correspondence concerning your unit should include the serial number, device ID, and purchase information.</p>
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**Revision: 1.0**

October 2009

<p><b>NOTE:</b> Information in this manual is subject to change without notice.</p>
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## **Warnings and Notices**

For your safety, do not operate the controls of the product while driving.

GPS satellite signals cannot typically pass through solid materials (except glass). GPS location information is not typically available inside buildings, tunnels, or underground parking lots.

A minimum of 4 GPS satellite signals is needed to calculate your GPS position. Signal reception can be affected by weather events or overhead obstacles (e.g. dense foliage and tall buildings).

Other wireless devices in the vehicle may interfere with the reception of satellite signals and cause the reception to be unstable.

## **Adapter**

Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

Do not use the adapter if the cord becomes damaged.

Connect the adapter to the proper power source. The voltage requirements are found on the product case and/or packaging.

## **Battery**

This unit contains a non-replaceable internal Li-polymer battery. The battery could be bursting or exploding and releasing hazardous chemicals in case of over battery specification and using in an abnormal conditions; disassemble, crush, puncture, or dispose of the battery in fire or water. Abnormal operation could be dangerous to your human body. Please be aware.

Use only the specified charger approved by the manufacturer.

Risk of explosion if battery is replaced by an incorrect type dispose of used batteries according to the instructions.

<b>WARNING:</b> The Lithium-Ion battery in the device must be recycled or disposed of properly.
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### **FCC Warning**

**HGF GTCN'E QO O WP IECVQ PUE QO O KUKP 'P VGTHGTGPEG'UVCVGO GPV''**

The M-Nav760 PND has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **RF exposure warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. "

### **CE Mark**

This equipment complies with the requirements for CE marking when used in a residential, commercial, vehicular or light industrial environment. R&TTE Directive. Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) – as amended by Directive 93/68/ECC - issued by the Commission of the European Community.

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# Chapter 1 Features and Specifications

## 1.1 NAVMAN WIRELESS M-Nav760 PND features

The NAVMAN WIRELESS M-Nav760 Portable Navigation Device is a powerful multifunction GPS/multimedia navigation and entertainment device.

- Compact size and lightweight
- Integrated GPS receiver for GPS navigation
- High-resolution color LCD
- 4.3” wide touch screen with 320 x 240 x 16 bits
- Multimedia functionality with high performance processor

## 1.2 M-Nav760 Specifications

**Table 1: M-Nav760 dimensions and specifications**

Category	Item
<b>Chassis</b>	
Dimension	117mmx77.4mmx11.55mm for 520 mAh 117mmx77.4mmx12.9 mm for 930 mAh
Weight	130g
Specifications	Operating Temperature: 0 °C to +55 °C Storage Temperature : -20 °C to + 70 °C
<b>System</b>	
OS	Windows CE 5.0 Core Version
NAND Flash	1G or 2G I_NAND
SDRAM	64MB or 128MB Mobile DDR
<b>Display</b>	
Screen Type	TFT, Touch Panel
Screen Size	4.3”
Resolution	480x272x16bits (WQVGA)
Backlight	Yes, brightness with TSP 300 nits typical
Touch Panel	Yes, (Finger Tapped)

Category	Item
<b>Battery</b>	
General	- 930 mAh Li-ion
Recharge Time	<p>■ 930 mAh</p> <p>Power ON (Default setting after factory reset)</p> <ul style="list-style-type: none"> <li>- Under 6 hours charge from empty to full by AC adapter</li> <li>- Under 6 hours charge from empty to full by car charger</li> </ul> <p>Power Suspend</p> <ul style="list-style-type: none"> <li>- Under 4 hours charge from empty to full by AC adapter</li> <li>- Under 4 hours charge from empty to full by car charger</li> </ul>
<b>Audio</b>	
Earphone	Yes (2.5mm)
Speaker	1.0W mono speaker
<b>Hardware Button\Slot</b>	
Micro SD	Supports Micro SD
Battery switch	Yes (HW reset)
<b>FM Transmitter (Optional)</b>	
Frequency	1) 88.2 to 107.8Mhz for EU market. 2) 88.2 to 107.8Mhz for US market 3) 76 to 90Mhz for Japan market 4) 88.2 to 107.8Mhz China market
Audio input	Digital stereo audio for internal audio Analog stereo audio if there is analog audio input
Antenna	PCB trace
<b>USB</b>	
USB solution	USB 2.0 device with supporting mass storage( High Speed)



## Chapter 2 Getting Started

This chapter describes the hardware interface of the NAVMAN WIRELESS M-Nav760 and its peripherals. Instructions for setting up the device and some basic system operations are also discussed.

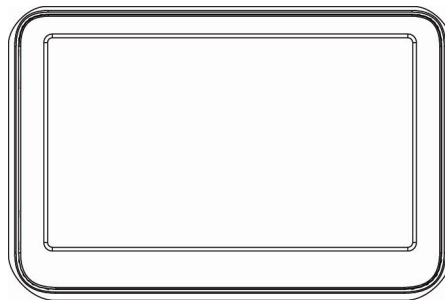
**NOTE:** Although the M-Nav760 rechargeable Li-Polymer battery comes approximately 30% charged, before using, it is best to connect the AC adapter (Optional Accessory) or USB cable by PC connect and plug to power socket and fully charge the battery. The ON/OFF button will be orange when charging and green when charge done.

### 2.1 Hardware overview

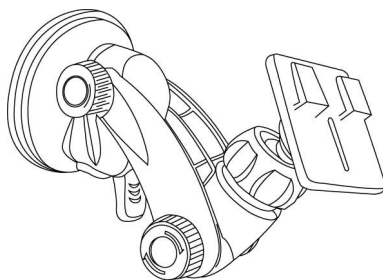
This section introduces the M-Nav760 PND external features and hardware components.

#### 2.1.1 Packing list

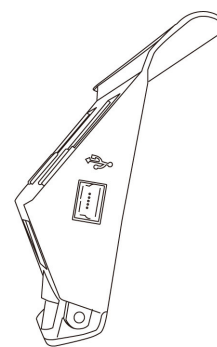
The NAVMAN WIRELESS M-Nav760 box contains all of the items listed below:



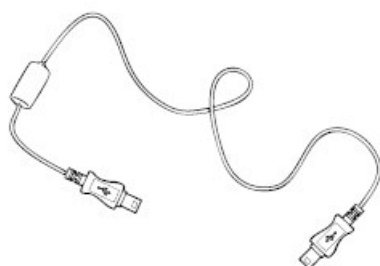
M-Nav760 Portable Navigation Device



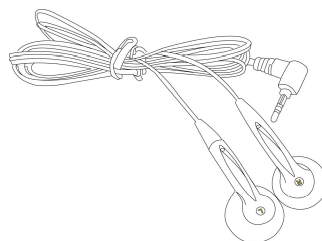
Car mount



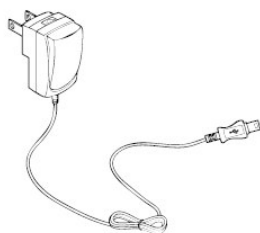
Car holder



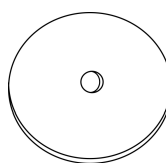
USB cable (Option Accessory)



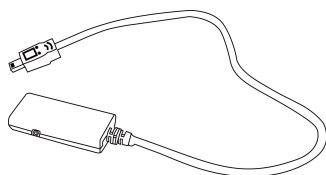
Earphone (Option Accessory)



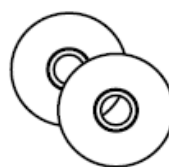
AC adaptor (Option Accessory)



Dashboard (Option Accessory)



TMC Antenna (Optional Accessory).



Portable Navigation Device Application Software DVD/CD.  
(Optional Accessory)



Portable Navigation Device Quick Start Guide.

### 2.1.2 Front Panel

Figure 1: Top and Left/Right side views

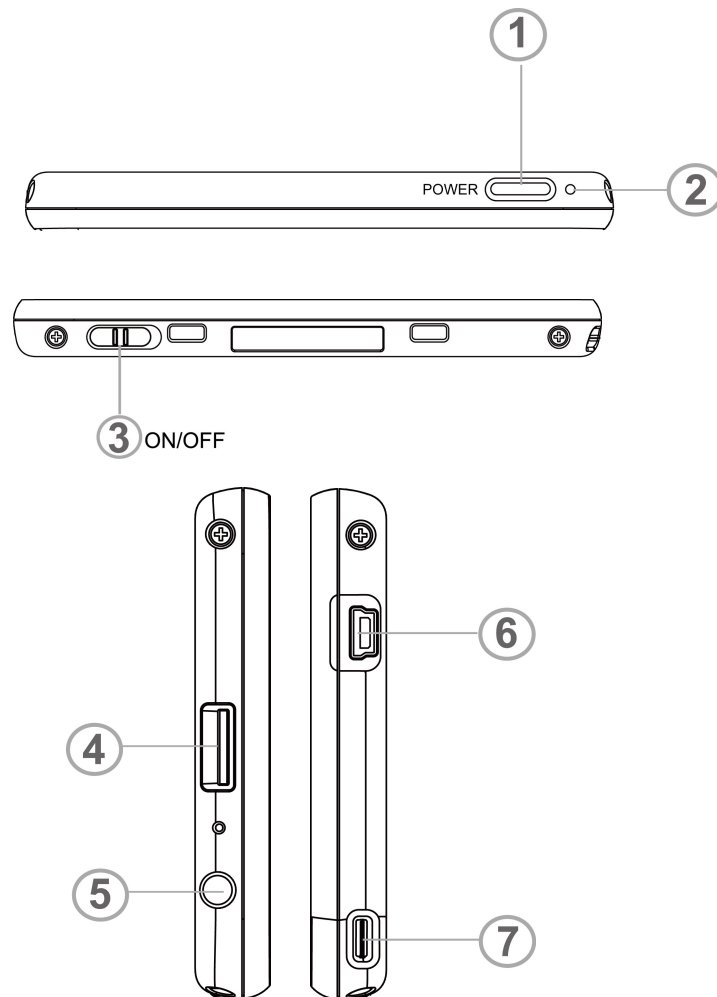


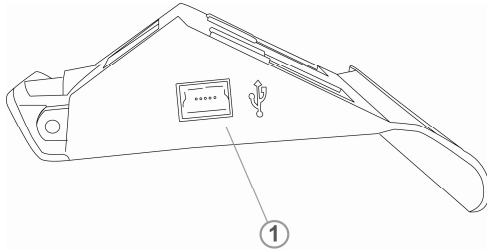
Table 2-1: Top and Left/Right side controls

NO	Function	
1	Power button	Standby mode by pressing the button for sleep/wake.
2	Power status LED	Indicated the battery charging status. <ul style="list-style-type: none"> <li>● Green—fully charged or high battery.</li> <li>● Orange—charging Battery</li> <li>● Red—low Battery</li> </ul>
3	Switch	Battery power “ON/OFF” and system reset function
4	Micro SD	Accepts Micro SD storage cards, allows you use audio, image files stored in it for use with internal applications.
5	Earphone (optional)	Standard stereo headphone jack.
6	USB port/Docking connector	Mini-USB connector serves as the power connector for charging the device or upload files from computers. However, it cannot be charged by USB device cable when PND is

		wake-up mode.
7	Hook	For hanging decoration

### 2.1.3 Car holder

**Figure 2: Car holder side views**



**Table 2-2: Car holder**

No	Function	
1	USB Port/Docking connector	For USB port : Only serves as the power connector of charging, but mass storage function. Also, it can connect to external TMC module (Option part). For Docking connector: connects to car mount kit.

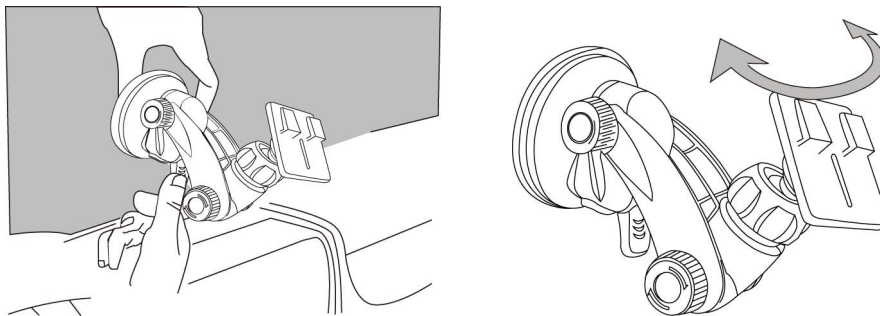
## 2.2 Using the mounting bracket.

The M-Nav760 comes with a car mount kit and a car charger to help install your device in your vehicle. The car mount kit uses a suction cup on the windshield to offer flexible mounting options for the M-Nav760.

**Warning:** Some countries prohibit the mounting of any electronic device on the vehicle dashboard. Be sure to check your local laws for acceptable mounting areas before installing the car mount bracket.

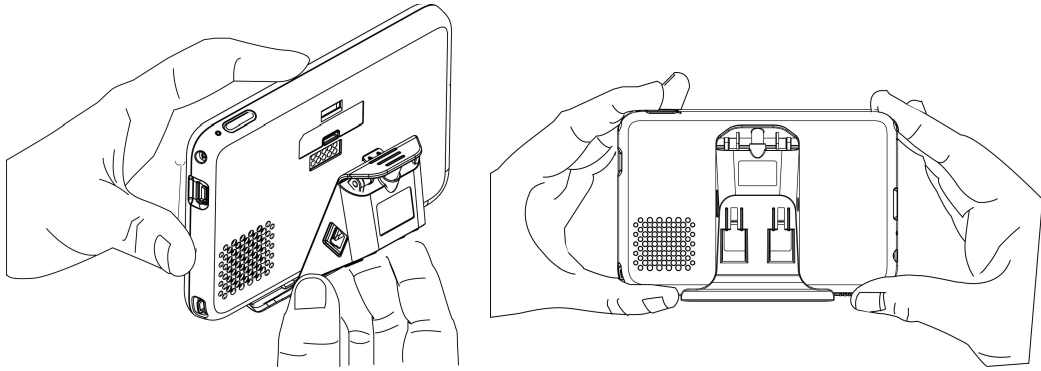
This section shows how to install the car mount kit in your vehicle's windshield using the suction cup. The M-Nav760 uses a snap on mounting cradle to use when the device attaches to the car mount. Below is the backside view of the M-Nav760 in the cradle.

1. Clean the mounting surface with a glass cleaner and a clean cotton cloth.
2. If the ambient temperature is below +15°C (60°F), you can warm the mounting area and the suction cup (e.g. with a hair dryer) to ensure a strong suction bond.
3. Install the car mount on the selected area.
  - a. Press the suction cup of the car mount firmly against to the windshield. (See Figure 2-3-1)
  - b. Press down the lever to fix the suction cup in place.
  - c. Adjust the angles of the arm to your proper viewing position.

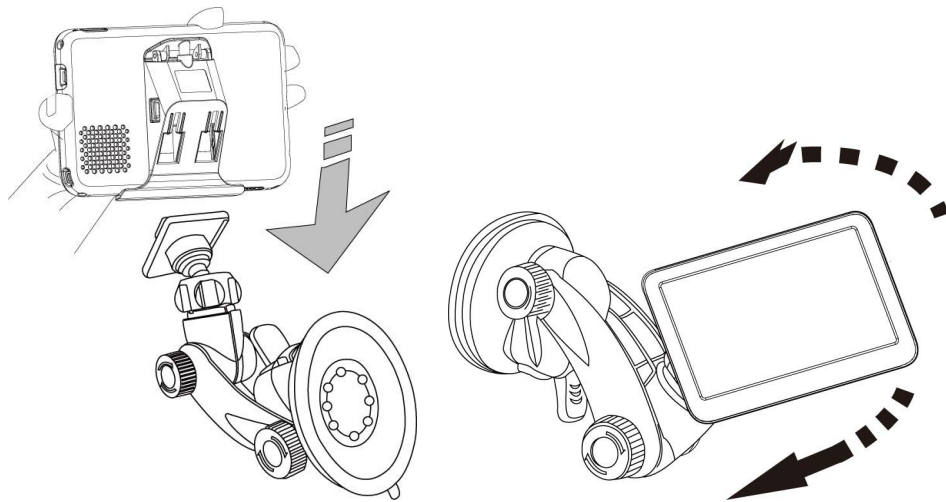


**Figure 2-3-1**

4. Mounting the device holder with your M-Nav760.
  - a. Fit M-Nav760 down in the device holder first, and then lock it using the plugs on the bottom of the device holder. (See Figure2-3-2)
  - b. Firmly dock the M-Nav760 with device holder on the car mount which has been mounted to your windscreen.(See Figure2-3-3)

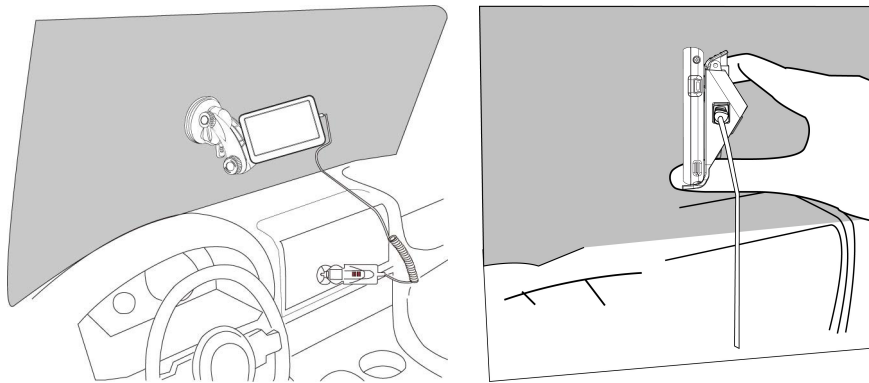


**Figure 2-3-2**



**Figure 2-3-3**

5. Charging your M-Nav760 device.
  - a. Plug the car charger to the 12 V outlet of your car and then connect the charger cable to the Mini USB port of the M-Nav760 car holder; Please make sure the battery switch status in “ON” mode. (See Figure 2-3-4)
  - b. You now can let your M-Nav760 have the continuous power by the car charger.



**Figure 2-3-4**

**NOTE:** Your car may be required to switch the vehicle ignition into the accessories position to power the cigarette lighter. Your M-Nav760 will not charge with the ignition off.

6. Starting your M-Nav760

- a. Push the battery switch ON.(Default status OFF)
- b. Press the power button to turn on your M-Nav760, then the main menu screen appears.
- c. Tap Navigation, you will see the map screen displayed.
- d. Please read the User's Guide of Navigation software for the detail setting information.

Please be noted, the first time turning on your M-Nav760 may take some time to obtain a valid GPS fix.

## 2.3 Additional Application with the Optional SKU

### 1. TMC Accessory (only available in certain areas)

You may use external TMC accessory to perform TMC function when you are in a TMC Traffic signal available areas. Please visit: [www.tmcforum.com](http://www.tmcforum.com) for the TMC Coverage information,

Please connect the TMC accessory to the USB port of M-Nav760 for the TMC application and be placing the TMC accessory in a place which will not interfere to the driving safe. (See Figure 2-4-1)

Please refer to the User's Guide of Navigation software for the detail TMC operating information.

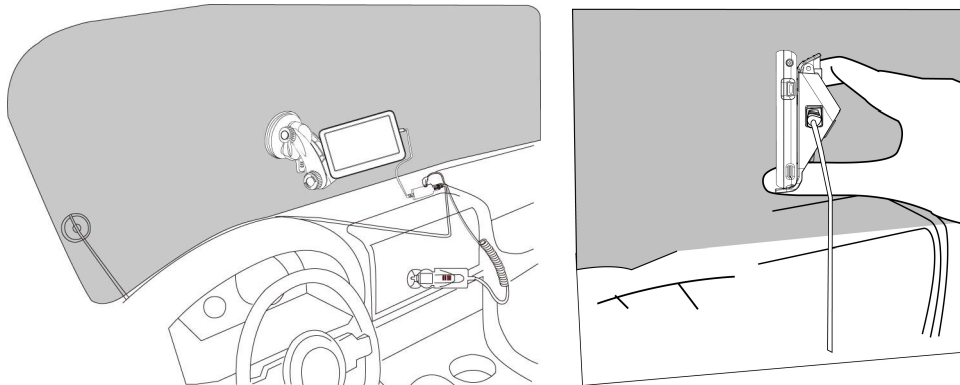


Figure 2-4-1

### Disclaimer

Please be noted that NAVMAN WIRELESS Company Ltd. and the licensed Navigation Software are not responsible for any damage caused by an accident due to unreliable TMC radio transmissions by national, regional, or local broadcasters caused by TMC service restrictions, or by natural and man-made conditions that prevent real-time information from being delivered to the device. The both companies are not responsible for the quality or accuracy of the events broadcast.

### Resetting the M-Nav760 Device

You should less than seldom need to reset your M-Nav760 under normal circumstances. However, in the event that a problem cannot be corrected, you may reset the M-Nav760 device by the following way :

Hard reset :

- To do a "Hard reset" Disconnect all cables, including the AC adapter, from your device.

By sliding the hard reset switch on the primary ON/OFF switch on the right side of the device from OFF to ON position then tap the power button.(see Figure 2-4-2)

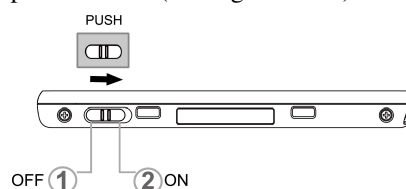
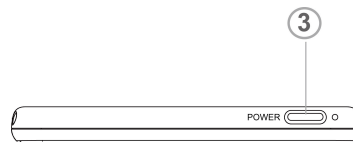


Figure 2-4-2





**Figure 2-4-3**

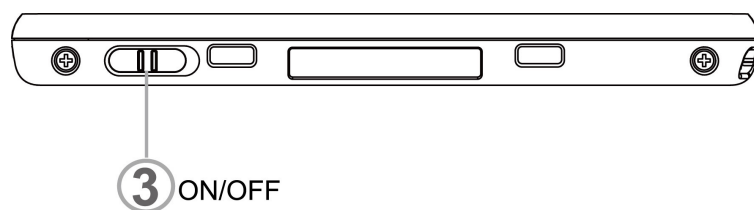
## Chapter 3 Using the M-Nav760

### 3.1 M-Nav760 Operating Basics

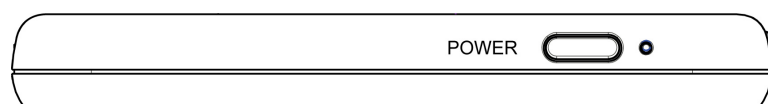
After fully charging the M-Nav760 it is ready to be used. You can now turn it on and proceed to system settings configuration.

### 3.2 To turn on the device:

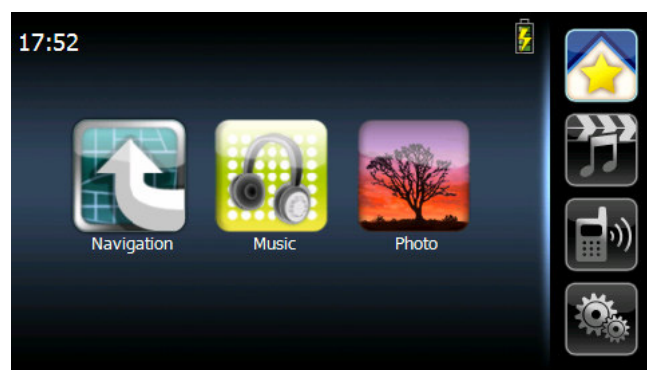
1. Sliding the battery switch to “ON”. (Default status OFF)



2. Turn on your device by pressing the power button on the top right panel of the device.



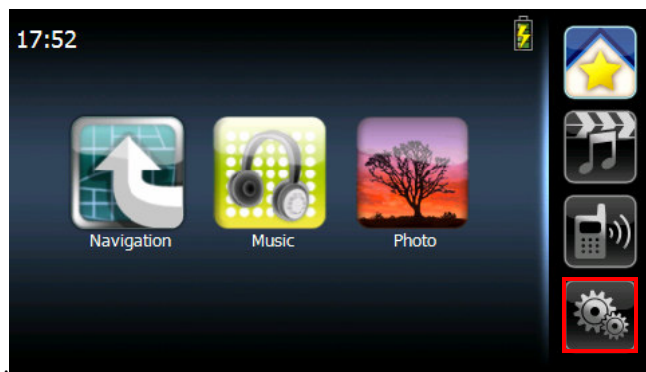
After turn on the device, main page will display. This is also referred to the Favorite page.



### 3.3 To configure system settings:

If you intend to start using your M-Nav760 at once, we recommend that you configure the language and time zone settings first. The rest of the user preferences can be set up later.

1. Tap “System” in the right category bar

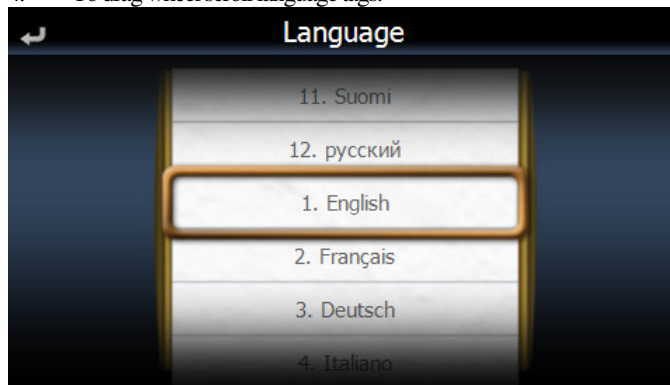


2. Tap “Language” on the System page.

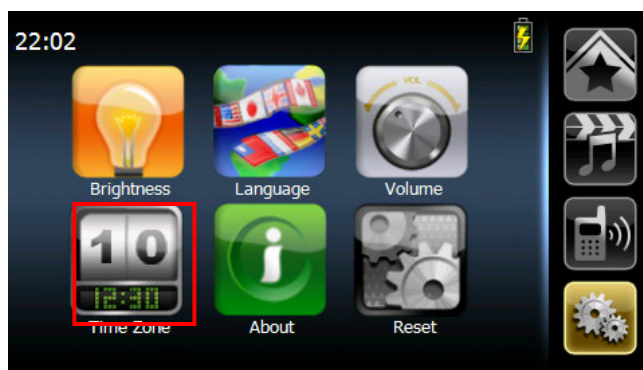





3. It will display current language in central area.

4. To drag wheel scroll language tags.



5. To set the system time zone, tap “Time Zone” in System Menu.

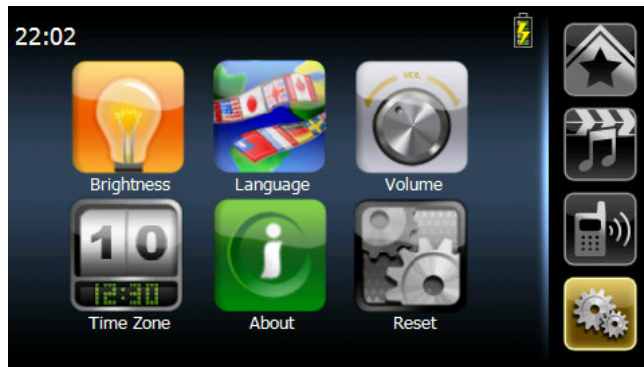


6. Tap the  icon to set up the function of daylight saving s time.
- a.  represent enable the function of daylight savings time.
- b.  represent disable the function of daylight savings time.
7. Drag the Map to adjust the time zone.



### 3.4 Additional System settings

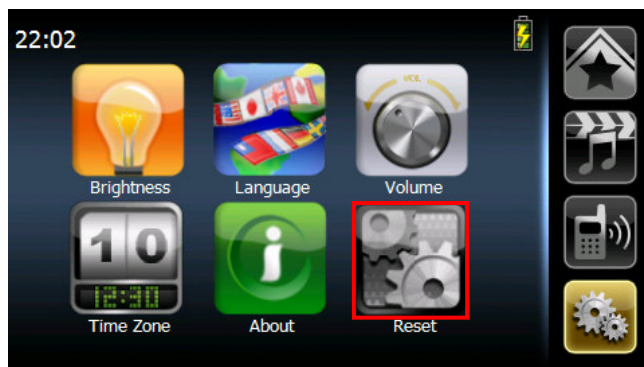
Other system settings can be used to view and adjust your device current preferences. Navigate from the System Menu.



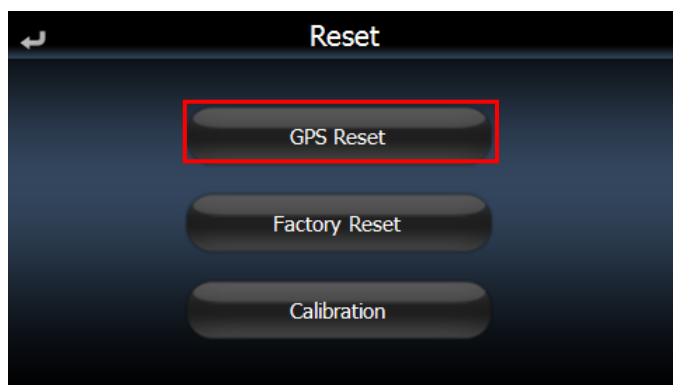
### 3.5 Reset

- GPS Reset : When user wonder if GPS receiver perform properly or not .( ex : Change the region)
- Factory Reset : The factory reset function not only resets the operating system settings to default factory values, but also reset the GPS settings.
- Calibration : When the touch screen does not respond well, calibrate the screen of your device.

1 Tap the “Reset” icon in the System Menu.



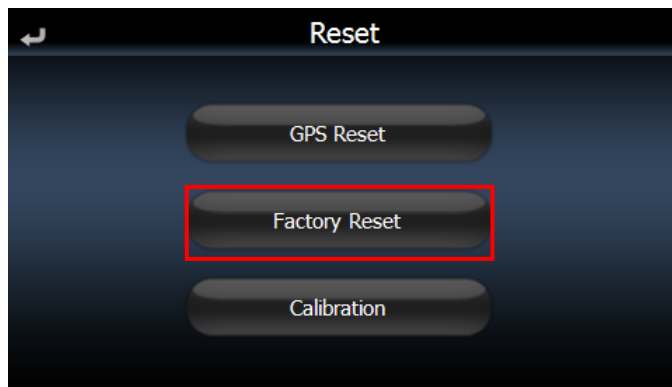
Tap the “GPS Reset” icon in the Reset Menu.



2 Tap the “YES” to reset the GPS.



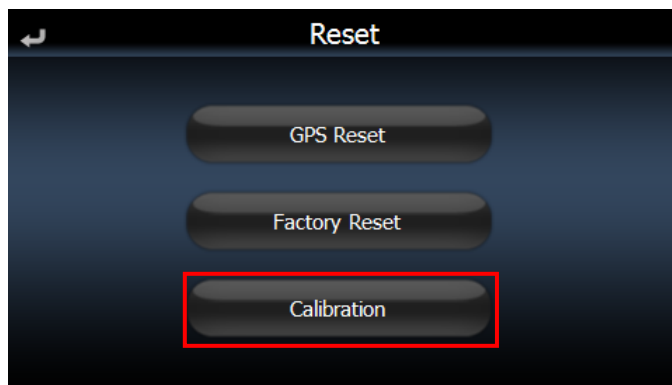
- 3 Tap the “Factory Reset” icon in the Reset Menu.



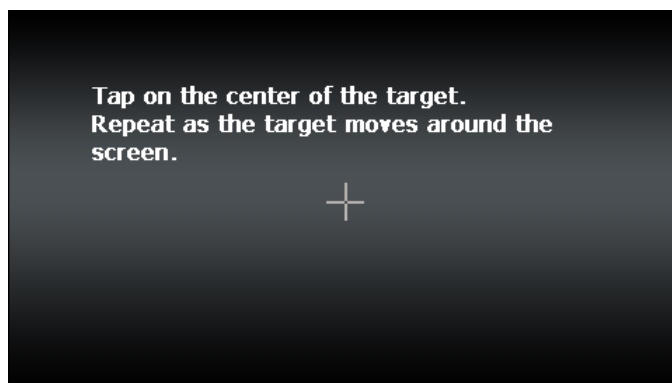
- 4 Tap the “YES” to do the Factory Reset.



- 5 Tap the “Calibration” icon in the Reset Menu.



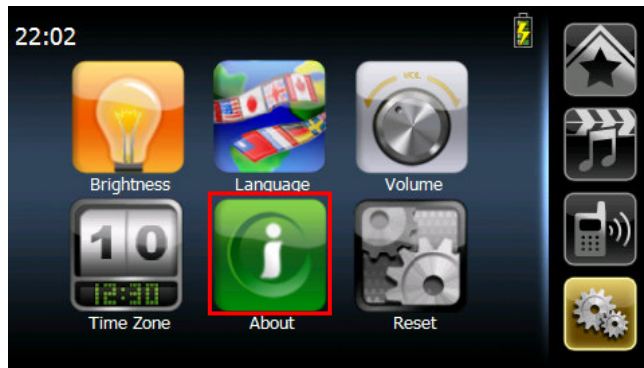
- 6 Tap on the center of the target. Repeat as the target moves around the screen.



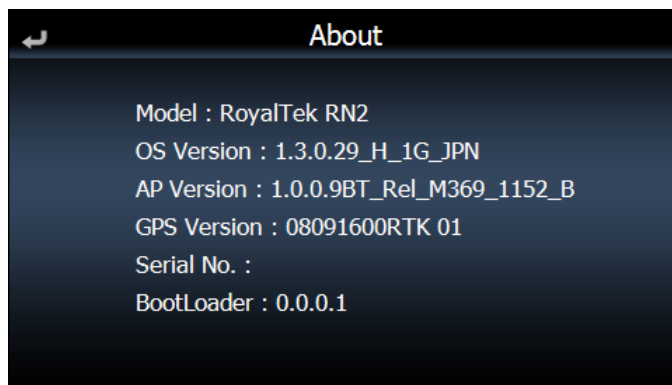


### 3.6 System Information

1. Tap the Sys Info. icon in the System Menu.



2. You can view the OS version, GPS firmware version and other system information..



### 3.7 Volume

1. Tap the Volume icon in the System Menu.



3. To adjust the volume by drag the wheel.
4. Drag to left will become silent else will become noisy.