

EMI TEST REPORT



Report Number : KSQ-FCC050420

FCCID : P2H NJ-102

Appendix B - User's Manual

Please see attached document(s).

Navian Quick Guide

Handheld GPS Receiver

(Model No. NJ-102)

April 2005



Navius Co., Ltd.

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Features

- Compact handheld GPS receiver
- Proven SiRF GPS technology provides accurate position
- Rugged design for outdoor sports
- High resolution LCD with Graphic User Interface for easy usage
- Firmware update support (optional data cable is needed)

S/W Functions

- **User Data Storage**
 - 500 waypoints
 - Automatic track storage: 10 tracks with 1,000 track points
- **Position Information**
 - Current position (with various coordination such as Lon/Lat, UTM/UPS, MGRS)
 - Current direction and speed
 - Trip Information (distance, average speed, maximum speed, time to trip and etc.)
- **Navigation Guide**
 - Set waypoint/track a destination to go.
 - Display navigation information (distance to go, time to go etc)
- **Game**
 - Lotto and etc.

H/W Specifications

•GPS

GPS chipset:

12 channel SiRFStarIIe/LP GPS Core
WAAS ready

Antenna: Built-in Patch Antenna

Acquisition Time:

Approx. 45 seconds (Cold),
38 seconds (Warm),
8 seconds (Hot)

Position Accuracy:

< 15 meters (49 feet),
< 3 meters with WAAS 95% typical

Update rate:

1Hz

User Memory:

Internal 300KB FLASH memory

•Physical

Display: 128x128 4Gray LCD (29mmx27mm)
FSTN, EL backlight

Size: 116mm x 56mm x 31mm

Weight: 78g (without AAx2 battery)

Case: Waterproof

Temperature: -10°C ~ 85 °C

•Interface

RS-232C

NMEA-0183 Output Messages
(GGA, GSA, GSV, RMC and VTG)

•Power

Input:

Two 1.5 volt AA Alkaline batteries

Battery life:

Up to 12 hours with alkaline batteries

•Optional Accessory

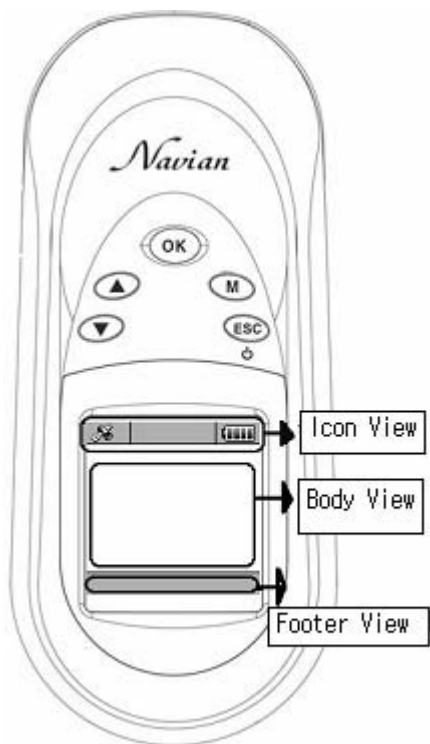
RS-232 Data Cable

AC adaptor

The Navian handheld GPS

This guide will provide you with the basics of using the Navian handheld GPS receiver.

The Navian has 5 keys – up/down/ok/menu/esc(power).



Key Name	Function
ESC/Power	Turn the Navian receiver on/off Escape from current menu or screen Turn backlight on/off
Menu	Call a menu, allowing user to access functions
OK	Accept inputs or selections
Up	Up
Down	Down

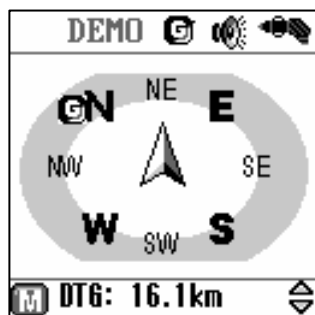
1. Previewing the main pages



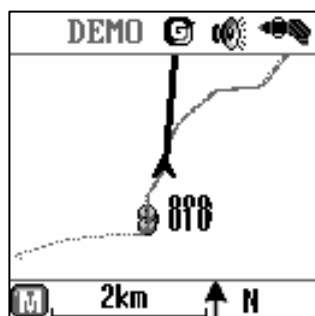
Speed Screen – Displays current speed, maximum speed and average speed.



Trip Info Screen – Displays Trip time HH:MM:SS and trip distance.



Compass Screen – Guides where to go for the destination. Upward direction is your heading direction.



Track Map Screen – Displays where you are going and where you have been. Track logs and waypoints you have saved are displayed.

2. Compute your position

Turn the Navian on by pressing the ESC/POWER button.

Press DOWN button and select "NAVIGATION" icon.



Select GPS INFO to view the Satellite Status screen.

With a clear view of the sky, Navian can track satellites and compute your position.



It takes about some minutes to determine your location for the first time. After the first position fix, "3D" character will appear in upper screen.

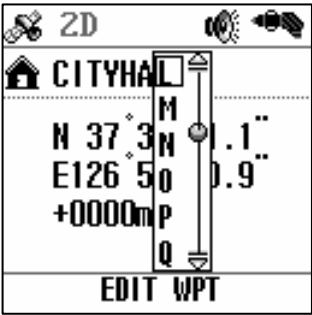


If you want to get the coordinate of location, select "LOCATION" menu.



3. Saving your present position

- From LOCATION ,NAV INFO, TRACK MAP screen, press OK key for few seconds.
- You can change icon, name, coordination value by using MENU key.
- Using UP/DOWN key,you can scroll up and down the list. Press OK key to select proper string or symbol on the list.
- To Save it, press OK key when done and return to the previous screen.
- You have to use this function when the GPS is navigation status. You can find letters '2D' or '3D' on the upper icon view area.



4. Setting a GOTO waypoint

- Select WAYPOINTS to view the waypoints list you have saved.
- Using OK key, you can switch focus from tab to waypoints list.
- Select waypoint using UP/DOWN key, and press MENU key to Set Goal.
- Once GOTO waypoint has been defined, your Navian will guide you in a straight line to your destination on TRACK MAP screen.



5. Logging lap time

From the top menu, select RUNNER icon.

RUNNER is for inline skaters or joggers.

At first, select distance interval to log lap time, and press OK key



Then, current speed, maximum speed , running distance, time record are showed.

And, whenever you pass a lap, you can hear the voice information that how long distance you have been running.



6. Changing user preferences

Select OPTION on the top screen, you can see the following sub menus.



- GPS :
 - 1.GPS reset
 - 2.Static On/Off
 - 3.NMEA out On/Off
 - 4.NMEA out baud rate
 - 5.Track Log Interval -
None,Auto,10m,30m,50m,100m,500m,1km
- SCREEN :
 - 1.Brightness
 - 2,Back light –manual,15sec,30sec,1min
- UNIT :
 - 1.Coordination –
Geodetic/Georef/TM/UTM/UPS/MGRS
 - 2.Datum
 - 3.Distance unit –metric,mile,nautical mile
 - 4,Time format –12hr,24hr
 - 5.Time Zone –Select city
 - 6.Summer Time –On/Off
- DEMO :
simulation of Navian when you are indoor.
- UPGRADE :
Set Navian to upgrade mode
- DEFAULT :
Restore all options to default values.

*Specifications subject to change without notice.

FCC Compliance Statement

This device complies with part 15 of the **FCC** Rules. Operation is subjected 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.

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the **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 the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.