User's Manual
Bluetooth GPS Receiver
XAiOX NavOne V3.0

Contents

1. Introduction

1.1 Overview

The XAiOX NavOne GPS Receiver is a Global Position System Receiver with Bluetooth wireless technology. This BT GPS receiver allows you to receive GPS data on mobile handhelds wirelessly. By sending >GPS position data over Bluetooth, you can position the receiver fort he bet possible reception all without wires. The advent of Bluetooth GPS receiver will become the next level of GPS receivers. The BT GPS receiver integrates Bluetooth module into GPS device. It shows the high performance, low power consumption, easily portable, rechargeable % removable battery function and wireless data transmission. If you have a Pocket PC or other portable devices enabled with Bluetooth function for example ASUS-620, iPAQ2210, JP and Palm, you can take advantage of your device's Bluetooth capability to wirelessly add GPS positioning technology. When you choose suitable navigation software, you can apply to personal, vehicle tracking, and marine navigation. If you use this Bluetooth GPS receiver, you will ignore the messy cords and antenna and add the portability of your Pocket PC. In addition, this Bluetooth GPS receiver can change the exhausted battery to full battery like battery of mobile phone.

1.2 Main Features

- 16 Channels ‚All-in-view' Tracking.
- Cold/Warm/Hot Start Time: 45/35/3-6 Seconds
- Re-Acquisition Time: 0,1 second
- Supports Standard NMEA-0183 at 9600 bps baud rate
- Compatible with Bluetooth Devices with Serial Port Profile (SPP)
- Small, sleek, and lightweight design easily fits in your hand
- Two LEDs on top of the device shows Bluetooth and GPS. There also is an ON/OFF button.
- Fleet Management/Asset tracking
- Personal/Portable Navigation (PDA, Pocket PC etc.)
- Location Based Service enabled devices
- Ultra low power-up to 30 hours after fully charged (1000mA Li-Ion Battery)
- High sensitivity -152dBm integrated GPS Receiver, active antenna and Bluetooth transceiver

2. Technical Specification

GPS Chip: Frequence: C/A Code: Channels:	NEMERIX GPS Module L1, 1575, 42 MHz 1,023 MHz Chip Rate 16
Antenna:	Built-in low noise (External Antenna optional)
Ext. Antenna Port	MMCX-Antenna
Acquisition Rate: Cold Start: Warm Start: Hot Start: Snap Start: Re-Acquisation: Update-Interval:	 approx. 45 Seconds approx. 35 Seconds approx. 3-6 Seconds approx. 1 Seconds approx. 100 mSec Each Second (default)
Accuracy: Position: without SA (horizontal) Velocity: Time:	 7 m, CEP (90 %) 3 m, (90 %) 0,1m/sec 100 ns synch. to GPS time

Bluetooth Protocol: Communication: GPS Protocol: Baudrate:	Bluetooth serial Distance up to 10 m NMEA-0183(V3.01) VTG, GGA, GSA,GSV,RMC 9600 bps (Data Bit: 8, Stop Bit: 1)
Battery:	Rechargeable 1000mA/h Lithium-Ion Battery And 5V DC Input Charging time: approx. 2,5 hours Operation time: approx. 30 hours, after fully charged
Operation Current:	45mA
Operating temperature:	-20 °C to +60 °C
Rel. Humidity:	5 % to 90 % (non-condensing)
Altitude:	<18.000 m
Dimensions: Length: Width: Hight:	 81 mm 44 mm 20 mm

3. Hardware Description

The Bluetooth GPS Receiver has two LED lights.
LED1 shows Power and SAT reception.
LED2 shows Bluetooth connection.

Status-Tabelle

LED	Colour	Status
LED1 SAT	RED (permanent light)	Power on – No or bad Satellite reception
	RED (flashing slowly)	Good Satellite reception
LED1 Batterie	RED ORANGE (flashing)	Low Battery
	RED	Battery is in charging process
	GREEN	Battery is fully charged
LED2 BT	BLUE (flashing quickly)	Bluetooth connection stable
	BLUE (flashing slowly)	Bluetooth connection interrupted

2 LED-Lights

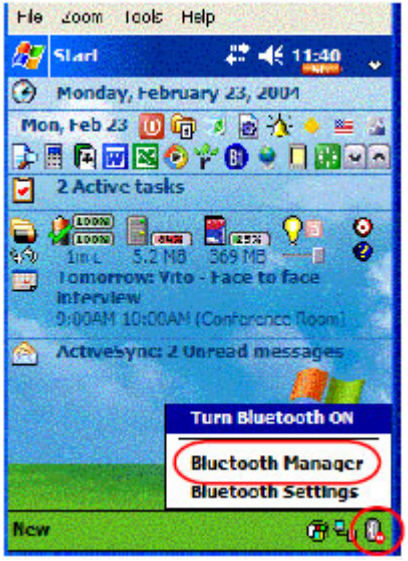
4. Box Contents

- XAiOX NavOne Bluetooth GPS Receiver
- 220V/110V AC Adapter (Output 5V/500mA)
- Car charger (Input12V, Output 5V)
- 1000mA Lithium Ion Battery
- Carrying Case
- Neckstrap
- User's Manual (CD-ROM)

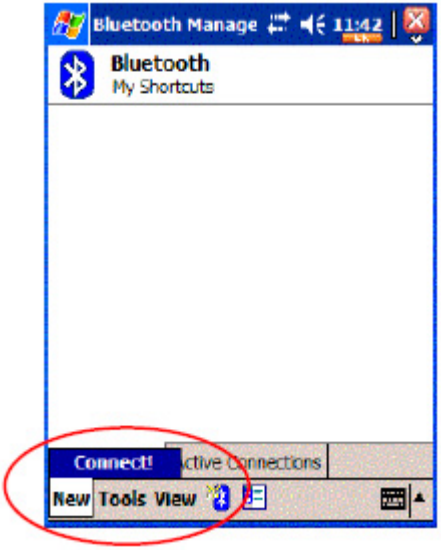
5. Software Installation – Pocket PC CE

Example: iPAQ Bluetooth with Pocket PC Software

<1> Turn Bluetooth ON
Select ‚Bluetooth Manager'



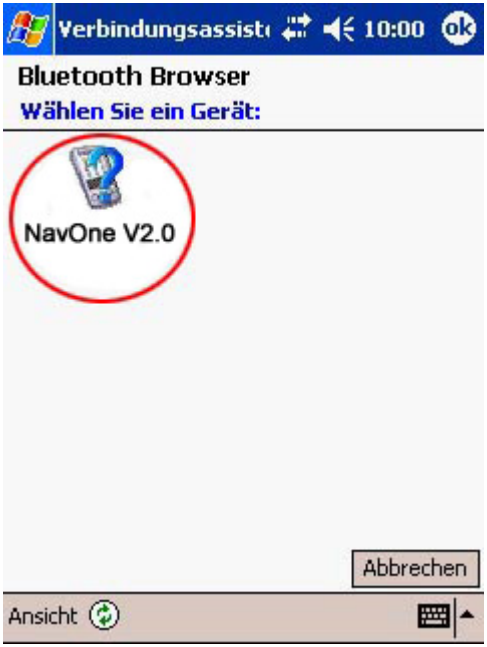
<2> Click ‚Connect!'



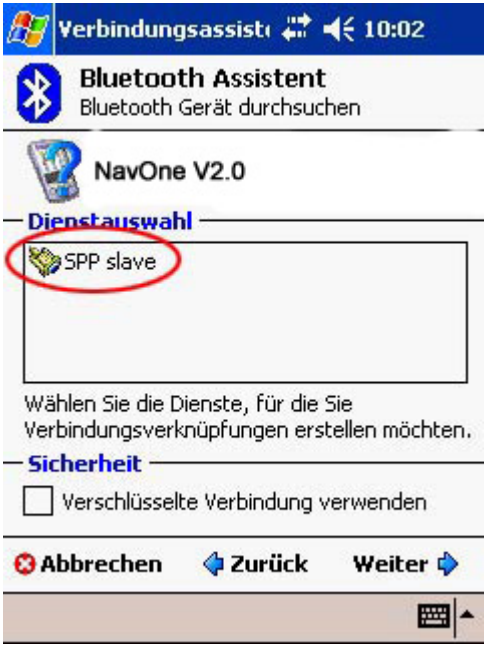
<3> Select ‚Explore a Bluetooth device' Then click 'Next'.

<4> Select <No device selected>, then click ‚Next'.

<5> Click ‚BT-GPS' .
If you are asked to enter a password, type ‚0000'.



<6> Select ‚SPP slave', then click ‚Next'.



<7> Click ‚Finish'.
BT-GPS connection is now established successfully.

<8> Tap the Bluetooth icon again and select 'Bluetooth setting'.

<9> Settings for TomTom Navigation Software. You can use any free Serial COM Port (outgoing)