

## Product Brief for: NGPSCPXXX

## GPS Compass - GuideMate



### PRODUCT OVERVIEW

The **GuideMate** is an innovative GPS navigator in a lightweight and strong structure. Compared with professional GPS devices or personal navigation devices (PND), **GuideMate** is simple for end user and ideal for walking navigation, hiking, bicycle, sport or any other activity, up to 22 hours operating time on just 2 AAA batteries. With high sensitivity GPS technology, **GuideMate** locates your position quickly and precisely and maintains precise location even in heavy cover or just near tall buildings and trees. You can operate **GuideMate** with just one hand using two buttons, which are located on either side of the unit within easy reach of your thumb.

#### E-Compass, Real-time Trip Information, Stopwatch -

A larger display makes it easy to see data at a glance.

#### GPS Data Logger -

The **GuideMate** can save locations in memory as track points (76,595 of them) and can connect to your PC with USB cable for traveling track monitor.

#### Guider, Location Finder -

300 Points of Interest (POIs) can be preload or manage by end user. Just select a POI you want to go to, and **GuideMate** points you to your destination (no street or terrain maps), you'll never worry about getting lost when you use the **GuideMate** in unfamiliar city or somewhere.

### SUMMARY OF FEATURE

#### • GPS Solution

- Integrated Nolan Systems GPS receiver module based on MStar POSEIDON 2 chipset (MSB2122)
- Fast TTFF: (under a typical outdoor condition)
  - Hot start in 1.5s
  - Warm start in 32s
  - Cold start in 34s

#### • Low Power Consumption

- Up to 22 hours operating time
- Low power standby mode, up to 440 hours standby time
- Deep sleep mode for power saving

#### • Simple User Interface

- Mini USB port for system update and connect to PC
- Support NMEA-0183 v3 data protocol and MStar binary protocol
- On/off slide switch, 2 multi-function buttons
- 1.2" 96x65 pixels white & black LCD with backlight
- Multi-language support (English, Simplified Chinese, Japanese)

#### • E-Compass

#### • Real-time Trip Information

#### • Stopwatch

#### • GPS Data Logger (76,595 Track Points)

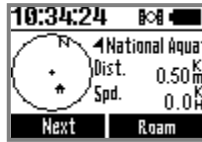
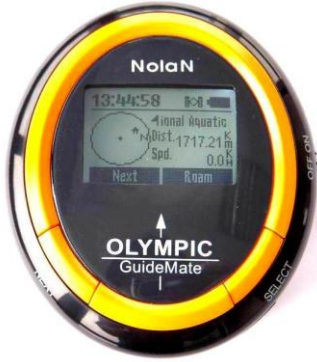
#### • Guider (300 POIs)

#### • Location Finder (Real-time Mark 4 POIs)

#### • PC Software

- Destination management
- Traveling track/log monitor
- Photo tagger
- Multi-language support (English, Simplified Chinese, Traditional Chinese, Dutch, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish)

## Product & Screen Shots



Main Page



Trip Info



Stopwatch



Destination



Destination Info



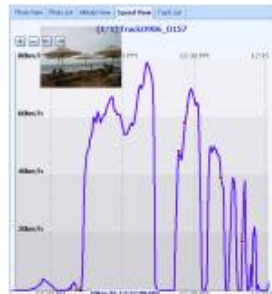
Setting

## PC Software Features



### Destinations (POIs) Management

300 Points of Interest (POIs) can be preload or manage by end user, which is multi-language support.



### Traveling Track/Log Monitor

If you want to keep track of some trips, GuideMate can save locations in memory as track points (76,595 of them) and can connect to your PC with USB cable for traveling track monitor.



### Photo Tagger

With GPS data logger (track points), the function can help you to manage all photos of your trips. Also, it is convenient to review all photos according to the tracks of your trips.



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## Specifications

GPS Chipset	MStar POSEIDON 2 (MSB2122)
Frequency	L1, 1575.42 MHz
Channels	48 acquisition & 12 tracking channels
Tracking sensitivity	-159dBm
Acquisition sensitivity	-144dBm
Position Accuracy	10 meters 2D RMS 7 meters 2D RMS, WAAS corrected 1-5 meters, DGPS corrected
Altitude Accuracy	< ± 35m vertical in term of 95%
Speed Accuracy	0.1 meters/second
Time Accuracy	1 microsecond synchronized to GPS time
Coordinate System	WGS-84
Hot Start	< 1.5 seconds average
Warm Start	< 32 seconds average
Cold Start	< 34 seconds average
Buttons & Switch	1 slide switch: on/off, 2 multi-function buttons
LCD	1.2" FSTN 96x65 pixels with LED backlight (Positive transfective panel)
USB	Mini USB port for system update and connect to PC.
Working Voltage	2 AAA batteries, 3.0V
Operating Mode	Up to 22 hours (Powered by Energizer Lithium AAA battery)
Standby Mode	Up to 440 hours (Powered by Energizer Lithium AAA battery)
Weight	80 grams (without battery)
Dimensions	68.0 x 58.0 x 25.0 (mm)
Housing	Plastic
Operation Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
Humidity	0~95%, non-condensing

## Package Contents

GuiteMate	x1
Mini USB Cable	x1
Quick Start Guide	x1
PC Software CD	x1
AAA battery	x2 (optional)
Lanyard	x1 (optional)

## Certificates

CE  
 FCC  
 RoHS



## Power Consumptions

Test conditions: VDD = 3.0V, Temperature =20°C

Mode	Min.	Average	Peak	Unit
Operating mode (with LED backlight)	-	68	-	mA
Operating mode (without LED backlight)	-	55	-	mA
Standby mode	-	3.7	-	mA
Deep sleep mode (Turn Off)	-	10	-	μA

**Note:** Power consumption is for the entire unit

## Electrical Characteristics

Absolute Maximum Ratings		
Rating	Min	Max
Storage Temperature	-20°C	70°C
Battery Supply Voltage	1.4V	3.6V
USB Supply Voltage	-	5.5V

Recommended Operating Conditions		
Operating Condition	Min	Max
Temperature	-10°C	60°C
Battery Supply Voltage	2.0V	3.0V
USB Supply Voltage	4.5V	5.0V