



**NAVILOCK®**

## Navilock NL-454US GPS Stick

**NEU**

MStar MB2122 chipset and USB 2.0 interface

The NL-454US is an USB 2.0 GPS receiver with internal antenna and a 48 channel Mstar GPS chipset. Netbooks, which are getting more and more popular these days, can be easily converted into a adequate navigation- or routingsystem. Due to a optional NMEA-compatible navigation- or routing solution (NAVIGATOR 8 or MarcoPolo) you can turn any netbook into a portable navigationsystem. Therefor the NL-454US provides the required position data.

### General specification

MStar MB2122 GPS single chipset  
Max. simultaneous reception of 48 channels  
Sensitivity positioning: -161dBm  
Integrated ceramic patch antenna (18 x 18 x 4mm)  
Very short TTFF (Time To First Fix) also with low signal  
Supports the NMEA 0183 protocol  
Internal USB to serial bridge

### Specification

Frequency L1, 1575.42 MHz  
C/A Code  
Position accuracy horizontal 5 meter  
Speed: 0.1 m/s  
Time 1ms RMS

### Time

Hotstart 1.5 sec., approx.  
Warmstart 32 sec., approx.  
Coldstart 34 sec., approx.  
Re-reference < 1 sec. approx.

### Date

Basic setting: WGS-84

### Dynamic conditions

Speed up limit less than 4g  
Height limit 18,000 meter (60,000 feet) max.  
Speed limit 515 meter/sec.  
(1,000 knots) max.

### Power supply

Power connector: 5V DC via USB port  
Power consumption: approx. 55mA

### Interface features

**USB 2.0** UART  
Baudrate 38400  
NMEA 0183 v3 GGA(1 sec), GSA(1 sec), GSV(5 sec),  
RMC(1 sec), GLL, (optional VTG)

### Physical features

Operation -20°~ +60°C  
Storage -30°~ +70°C  
Humidity up to 95% non-condensing  
Dimension 65.5 x 23 x 11 mm  
Weight 20g

### System requirement

Windows 98 / 2000 / XP / Vista  
Mac OSX 8/9/10.x  
Linux RedHat 7.3 / 8.0 / 9.0  
a free USB port  
CPU: min. 500 MHz, Pentium III  
System memory (RAM): min. 128MB RAM  
HDD: 50MB free memory  
Display: 1024x768, "16-bit High Color" Display

### Package content

NL-454US  
8cm CD with manual, driver and tool  
USB extension cable 13cm



**USB 2.0 Version**

[www.navilock.com](http://www.navilock.com)

Product-No.: 60097  
EAN: 4043619600977  
Customs tariff no.: 85269120  
Country of origin: Taiwan