

GPSFox

Quick Guide

Version 1.3

2012/04/05

The logo consists of the word "LOCOSYS" in a bold, white, serif font, centered within a solid orange rectangular background.

LOCOSYS

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Getting Started

System Requirements :

To use GPSFox on a Windows PC, you must have at least the following:

- **Operating System :** Windows 2000 , Windows XP, Windows Vista, or Windows 7
- **CPU:** 500Mhz, Pentium 3 and above
- **System Memory (RAM) :** 128MB RAM and above
- **Hard Disk :** 50MB free space
- **Screen :** 800x600, "16-bit High Color" screen

Installation :

Make sure the driver for USB has been successfully installed on your host PC/Notebook, and just copy GPSFox.exe to a new empty folder on your hard disk .Create a shortcut on desktop if necessary.
(The USB driver can be downloaded from our website: <http://www.locosystech.com>)

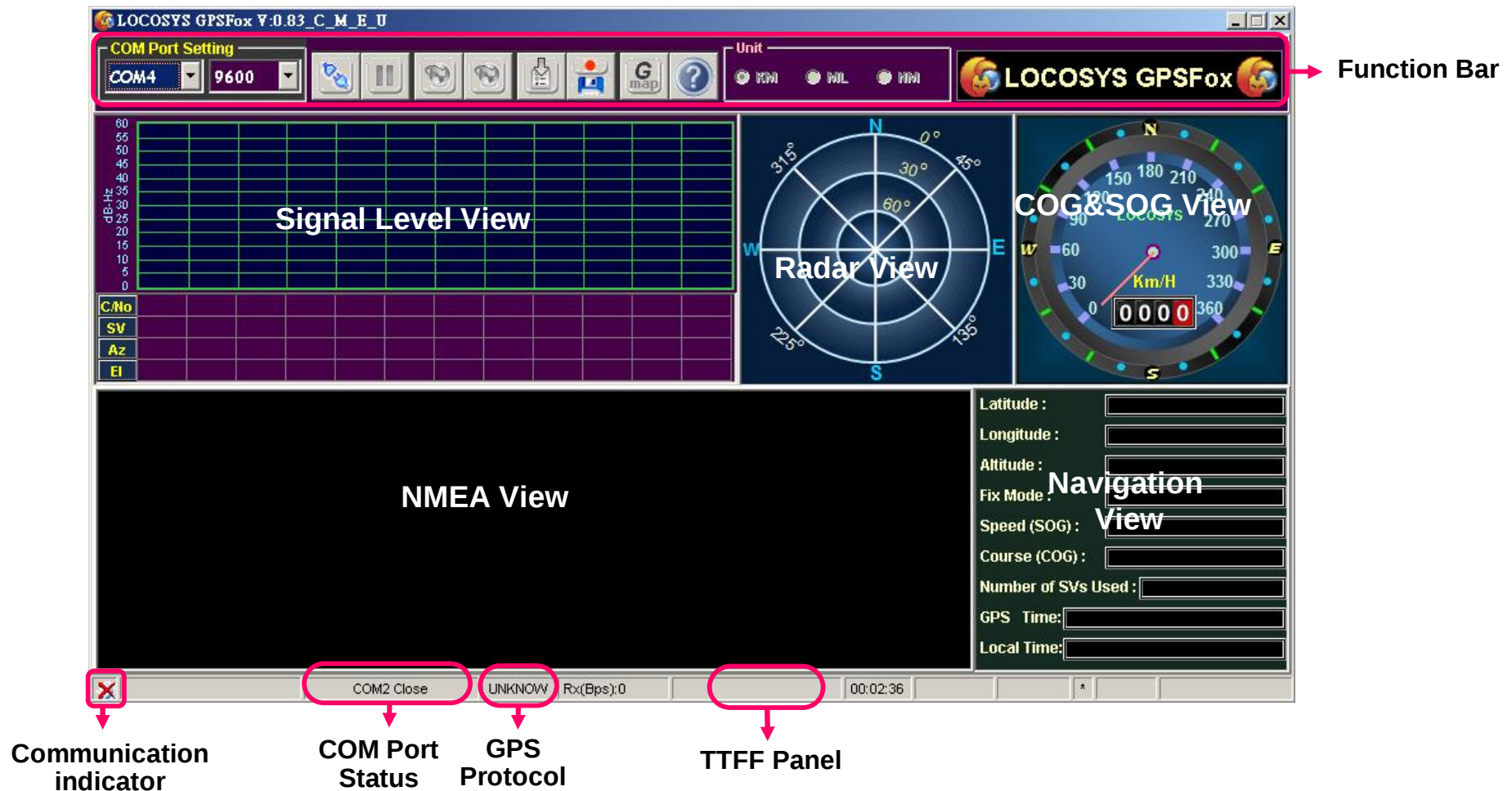
Uninstallation :

This program does not add any key to system registry. If you don't want it to keep it no more , just delete the provided files and its shortcut from your hard disk.

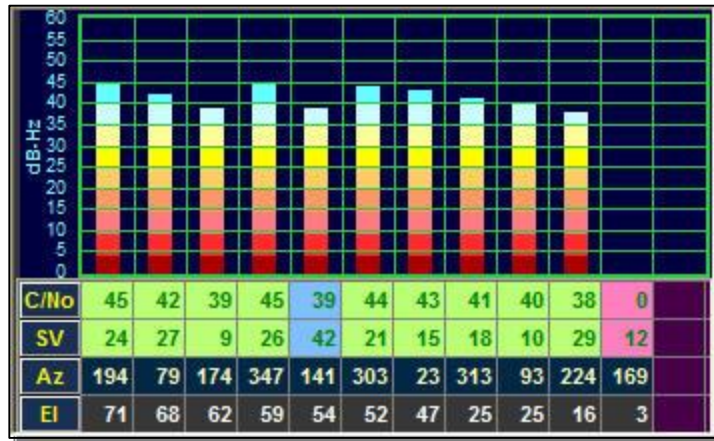
Launch GPSFox

1. Double click on the GPSFox.exe or the GPSFox's shortcut  on windows desktop.
2. Select the "COM Port" and "Baud Rate" apply to the host PC.
3. Click "Connect to GPS"  and then the NMEA output messages will display in the NMEA View.

The GPSFox is an easy-to-use utility which can display graphically specific NMEA 0183 message received from GPS receiver. There are five information areas, two function bars and some status indicators in the main form.



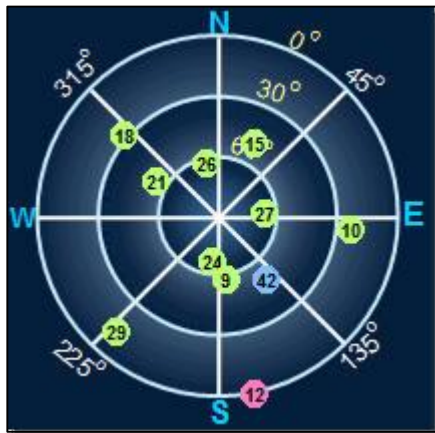
✦ Signal Level View



The **Signal Level View** displays the satellite number(SV), azimuth(Az), elevation(El) of tracked and available satellites in a text form. It also shows the C/N0 value in both text and graphical forms.

Item	Description
C/N0	Signal level in dB-Hz
Satellite Number (SV)	GPS satellite ID
Azimuth (Az)	Satellite azimuth (in degrees)
Elevation (El)	Satellite elevation (in degrees)

✦ Radar View



The **Radar View** displays the azimuth and elevation of tracked and available satellites in a graphical form. The color of the satellite status is:

Color	Description
Light green	Satellites being used in the position solution
Light blue	Satellites being tracked but not used
Pink	Satellites that are not tracked and are not used in the position solution

★ COG&SOG View



The **COG&SOG View** displays the GPS speed and direction in a graphical form. There are three measurement systems can be shown: Metric (KM), Imperial (Mile) or Nautical Mile (Knot). You can select the unit of measurement in the Unit selection box on **Function Bar** by click the item of Km, Mile or Knot.

★ NMEA View

```
$GPGLL,2503.7150,N,12138.7445,E,033806.000,A,D*5E
$GPGSA,A,3,24,26,21,09,18,29,27,10,15,,,1.29,1.00,0.82*09
$GPGSV,3,1,11,24,71,193,45,27,68,078,42,09,62,174,37,26,58,347,45*70
$GPGSV,3,2,11,42,54,141,38,21,52,303,44,15,47,023,43,18,25,313,41*7F
$GPGSV,3,3,11,10,25,093,40,29,15,224,37,12,04,168,*46
$GPRMC,033806.000,A,2503.7150,N,12138.7445,E,0.03,0.00,040509,,D*62
$GPVTG,0.00,T,M,0.03,N,0.06,K,D*3D
$GPGGA,033807.000,2503.7150,N,12138.7445,E,2,9,1.00,128.8,M,15.3,M,0000,00
$GPGLL,2503.7150,N,12138.7445,E,033807.000,A,D*5F
$GPGSA,A,3,24,26,21,09,18,29,27,10,15,,,1.29,1.00,0.82*09
$GPGSV,3,1,11,24,71,193,45,27,68,078,42,09,62,174,37,26,58,347,45*70
$GPGSV,3,2,11,42,54,141,38,21,52,303,44,15,47,023,43,18,25,314,41*78
$GPGSV,3,3,11,10,25,093,40,29,15,224,37,12,04,168,*46
$GPRMC,033807.000,A,2503.7150,N,12138.7445,E,0.01,0.00,040509,,D*61
$GPVTG,0.00,T,M,0.01,N,0.03,K,D*3A
```

The **NMEA View** displays the original NMEA messages received from GPS receiver. If you want to clear the content of **NMEA View**, just right-click in **NMEA View** area and click the **Clear** item on popup menu.

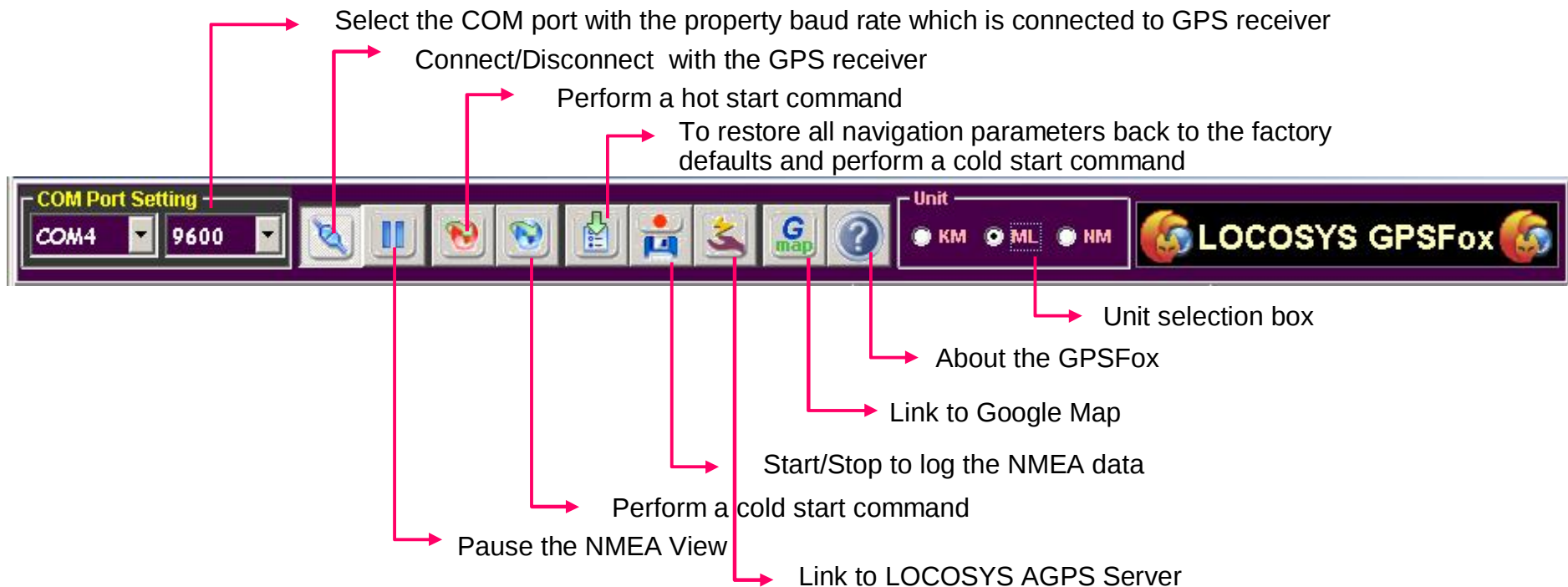
✦ Navigation View

Latitude :	N 25.061917°
Longitude :	E 121.645742°
Altitude :	128.8 m
Fix Mode :	3D
Speed (SOG) :	0.0 Km/H
Course (COG) :	0.0°
Number of SVs Used :	9
GPS Time:	2009/05/04 03:37:59.000
Local Time:	2009/05/04 11:37:59.000

The **Navigation View** displays the primary navigation information, the units of measurements are determined in the Unit selection box.

Fix Mode	Description
not Fix	Fix not available
2D	2D (<4 SVs used)
3D	3D (>3 SVs used)

✦ Function Bar





About the GPSFox :



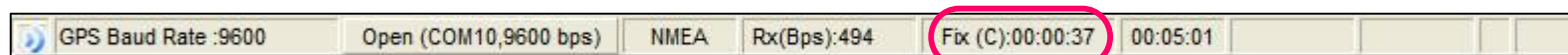
Link to LOCOSYS AGPS Server



Clicks the **Update** button for automatically connection to LOCOSYS AGPS server and updating AGPS data to the module.

Communication indicator :

Symbol	Description
	COM Port disconnection
	Data transmission ,COM port busy
	No data transmission ,COM port idle



If you perform a Hot/Cold Start command, the information of TTFF(Time To First Fix) will display on the TTFF panel.