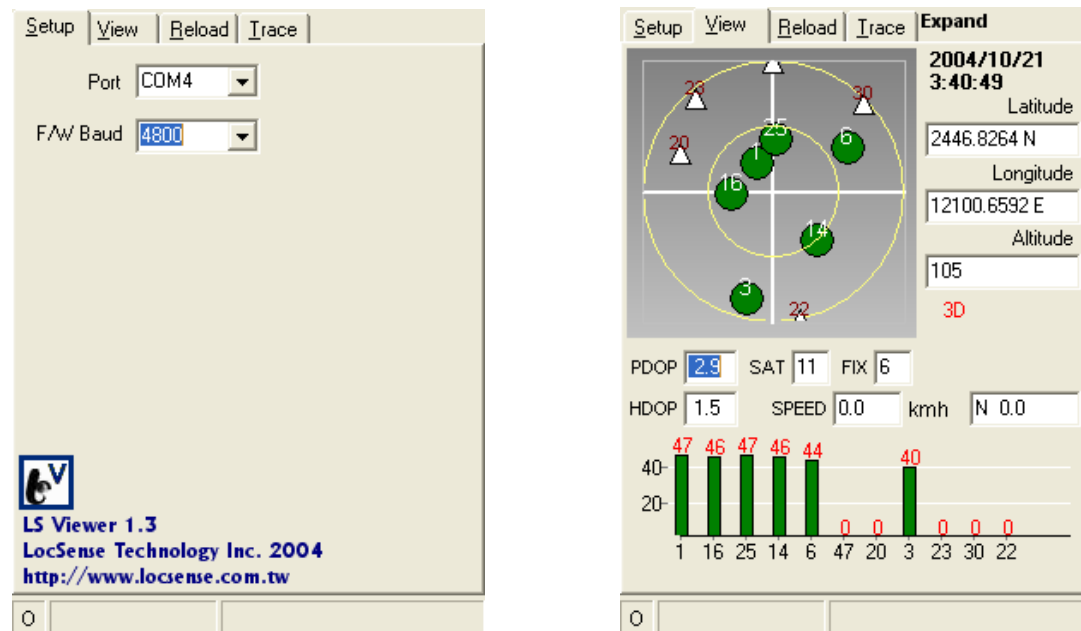


LocSense Technology Inc.

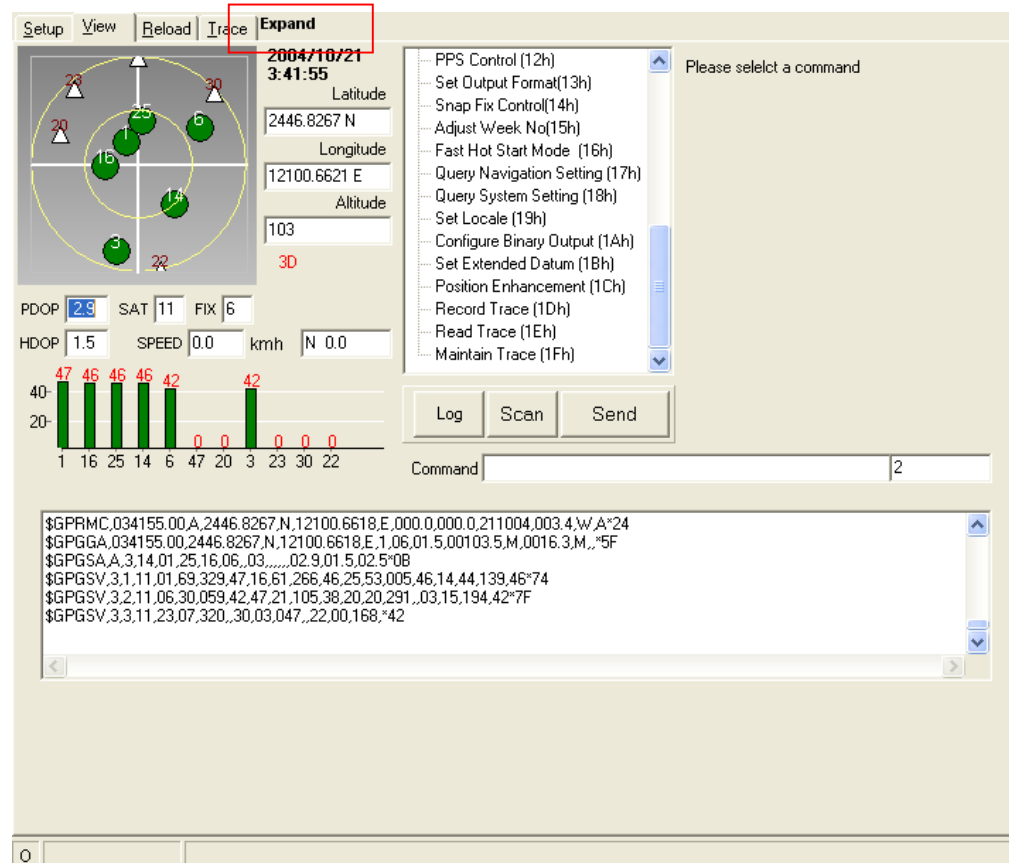
LS Viewer User's Guide V0.9

Getting Started

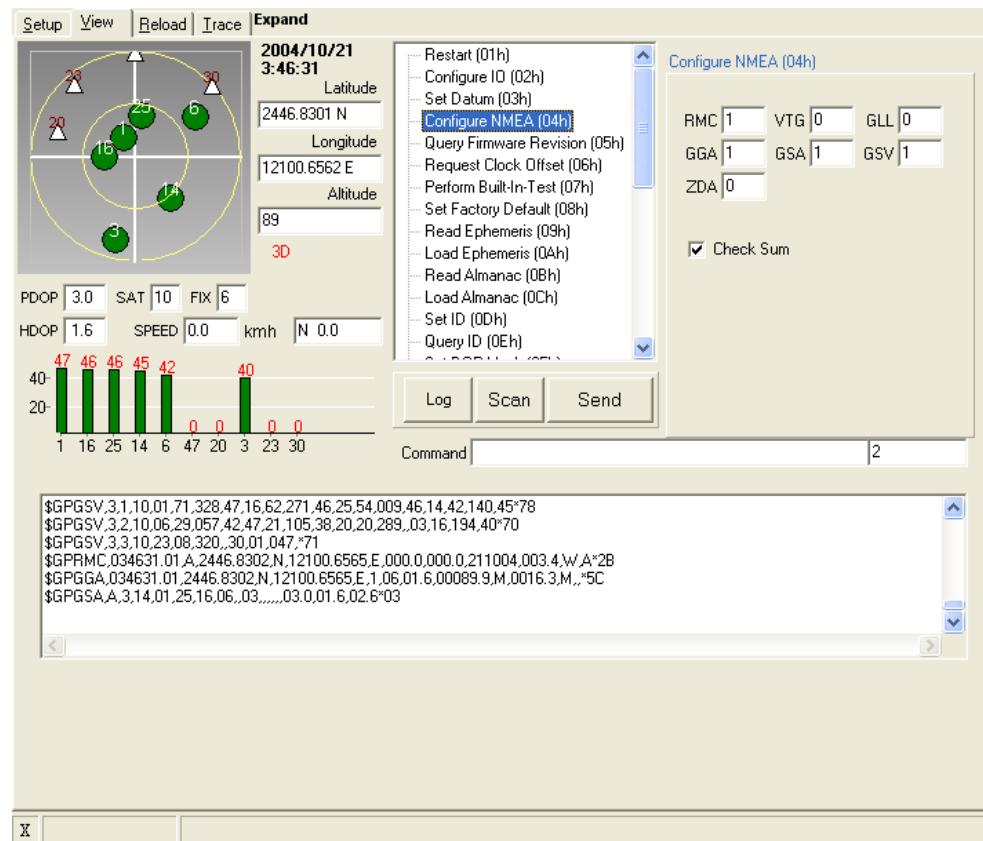
1. Choose proper baud rate and COM port to connect to GPS module.



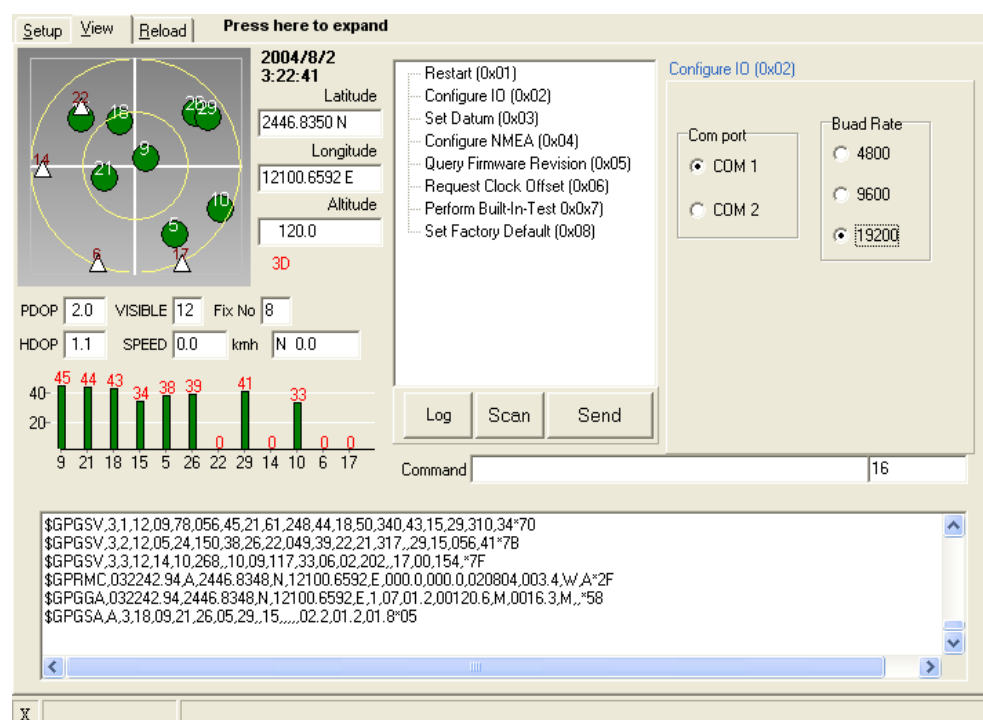
2. Press tag "View" to see the status of GPS module.
3. Press "Expand" on the top of the window to see command list on the right pane of the window.



4. Press “configure NMEA” on the command list to change NMEA to RMC and GGA only for your application: After setup the NMEA menu, press button “Send”. Please be advised that View page shows the proper status when GGA, RMC, GSA and GSV are all enabled.



5. Press “Configure IO” on the command list, select 19200 for COM1 and press button “Send”. Please be advised that your LSViewer has to be changed to 19200 on tag “Setup” page after this procedure otherwise you can not see anything output.



Setup

Before going on to other page, you should choose correct baud rate and Com port that connects to GPS module from notebook or PC.

F/W rate Specify GPS current baud rate from 4800, 9600, 19200.
Port Host com port connects to GPS module.

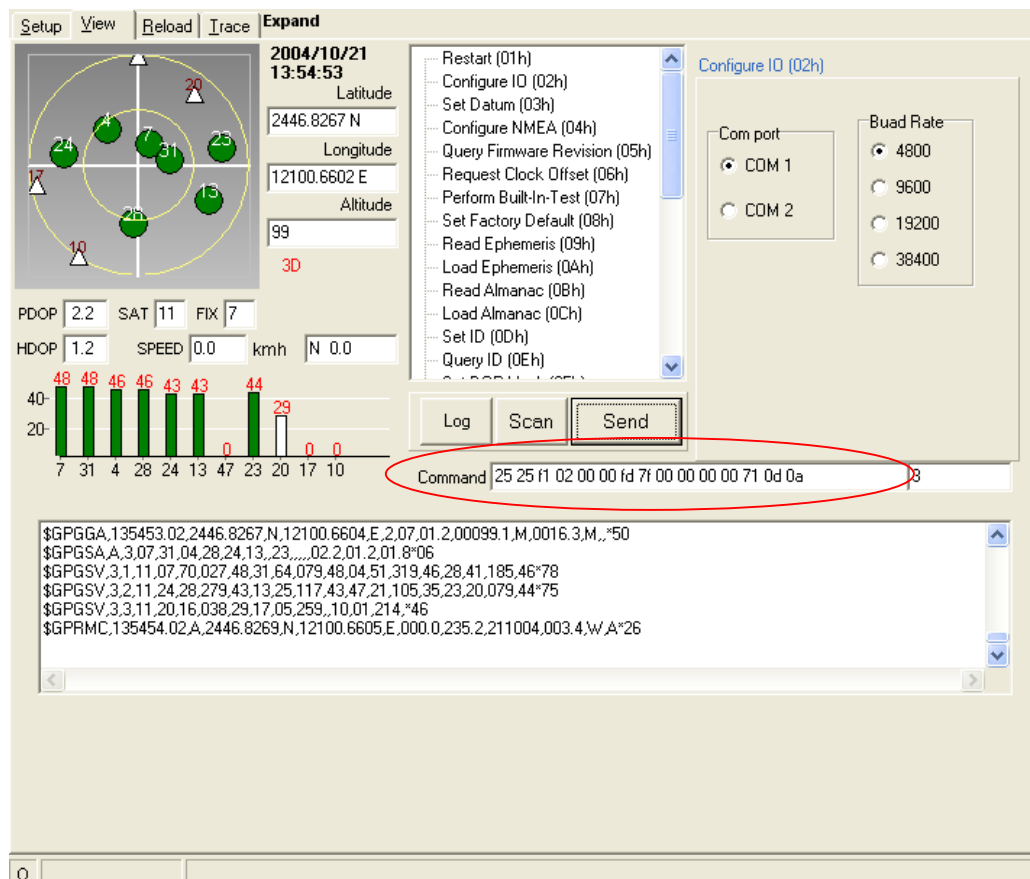
View

In normal window, it shows the current status of GPS, including satellite information, acquisition status, fixed position and precision time.

In expanded view, user should be able to see the raw NMEA message and be able change setting of GPS module to fit into your need and request detail of GPS information (e.g. Firmware version).

Command Tree

To send a command to GPS, click on the command you want on the command tree, the corresponding information data will be showed on the left side. After the proper setting is done, press button "Send", and red-circled area shows the data string that is send to GPS module.



Reload

This page is used to reinstall the GPS software.

Warning

LocSense software is product-specific, please contact your local distributor to get the correct software.

If the software installation fails, the module may need to return for service.

File to Install

Press button "Browse" to get the correct file.

Auto Load

When "checked", the installation will automatically start when GPS module is powered on.

Factory Default

When "checked", the "set to factory default" command will be issued after installation.

Write

This button is used to start installation when GPS has been powered on already and work properly.

The screenshot shows the 'Write' button highlighted with a green arrow. The status bar at the top right displays 'Standby' in green. The 'Information' section shows 'Reconfigure' as OFF, 'File' as LSGPS.BIN, 'Auto Load' as checked, and 'Factory Default' as unchecked. The 'Browse' button is also visible, and the file path 'C:\WORK\Seed_code\LS_FW\Relea' is shown. The 'Load address' is 'C0000' and the 'Size (K bytes)' is '192'.

The screenshot shows the 'Stop' button highlighted with a green arrow. The status bar at the top right displays 'Sending...' in green. The 'Information' section shows 'Reconfigure' as OFF, 'File' as LSGPSD22\BIN\, 'Auto Load' as checked, and 'Factory Default' as unchecked. The 'Browse' button is also visible, and the file path 'C:\WORK\Seed_code\LS_FW\Relea' is shown. The 'Load address' is 'C0000' and the 'Size (K bytes)' is '192'. The status bar at the bottom right displays 'Sending data'.

The screenshot shows the 'Write' button highlighted with a green arrow. The status bar at the top right displays 'F/W OK!' in green. The 'Information' section shows 'Reconfigure' as OFF, 'File' as LSGPSD22\BIN\, 'Auto Load' as checked, and 'Factory Default' as unchecked. The 'Browse' button is also visible, and the file path 'C:\WORK\Seed_code\LS_FW\Relea' is shown. The 'Load address' is 'C0000' and the 'Size (K bytes)' is '192'. The status bar at the bottom right displays 'Program OK!'.

Trace

Request	To retrieve the trace status. It cannot be used when reading is in progress.
Percentage	Show used percentage of trace buffer
Logged	Number of trace records logged
Read Position	Current position to be read

Function Tree

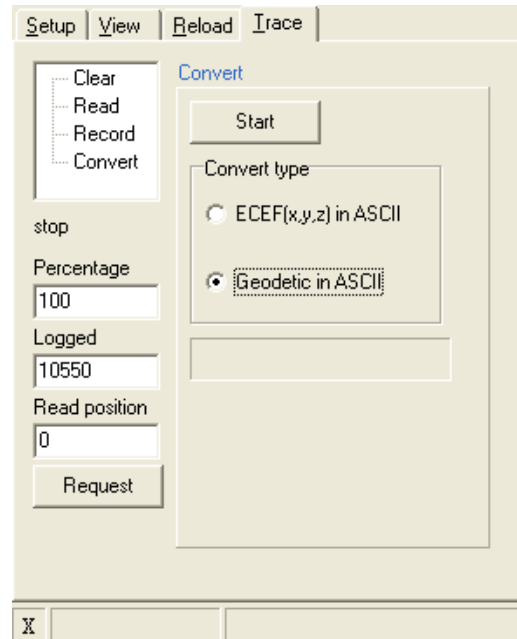
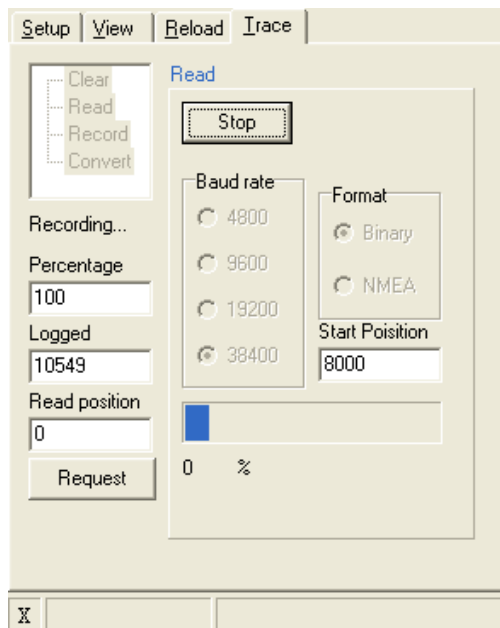
Clear Reset the trace buffer, all logged records are erased.

Record To start/stop recording the trace. The data is consistent of 0x88 messages mixed with some other request responses. The saved file is namely tracelog.tmp.

Distance To specify how far the trace has to be recorded.

Time Period To specify how soon the trace has to be recorded.

Time to log To specify the recording time in seconds. When it is filled with the maximum value (65535), it will continue recording even though the buffer is full, and the new trace will overwrite on the earliest record



Read To retrieve the trace record to temporary file (**tracelog.tmp**). Press “Stop” to end the reading.

Note: To make the reading smoothly, change GPS module to baudrate 38400 and move GPS to a place where GPS cannot get position fixed.

Start Position To specify the first read position.

Convert This function converts the data, saved in file tracelog.tmp, into one of two formats: ECEF and Geodetic, and save them into file tracedata.log.

Convert Type Choose the conversion format