

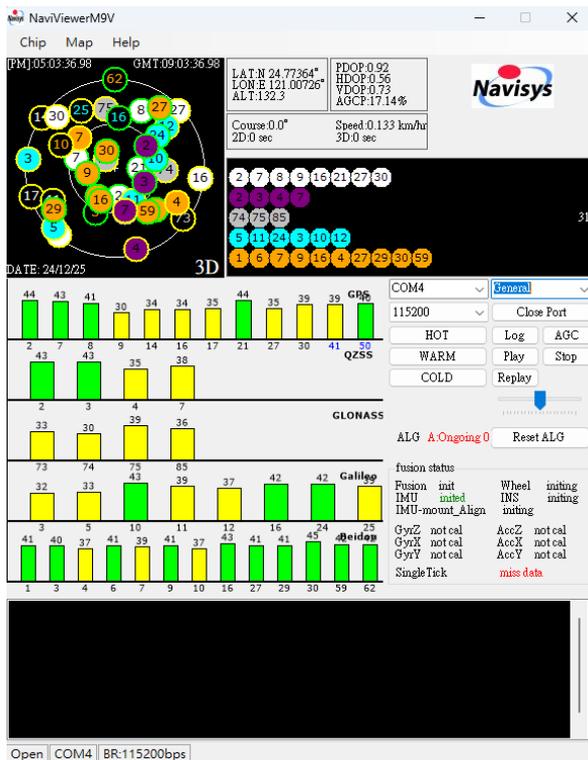
# Quick Guide of NaviViewerM9V

## Overview

NaviViewerM9V is a GNSS viewer tool developed by NaviSys Technology Corp. NaviSys keeps the use of NaviViewerM9V as simple as possible. The use of it is very straightforward except following obscure functions.

Set the correct COM port, Baud Rate, and then

Click **Open Port**.



**Note.** If there is no output, please click **Close Port** double check the settings and then **Open Port** again.

## Signal Bars

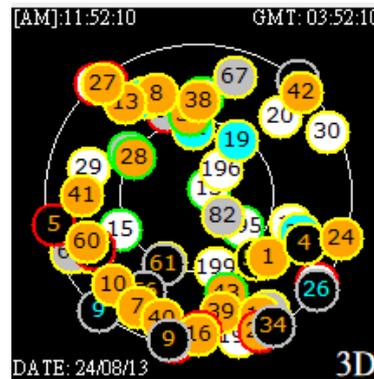
- Signal strength is represented by the bar length and color
  - Blue:  $\geq 50$ , green:  $\geq 40$ , yellow:  $\geq 30$ , red:  $< 30$
- Satellites of different systems are displayed by different colors:



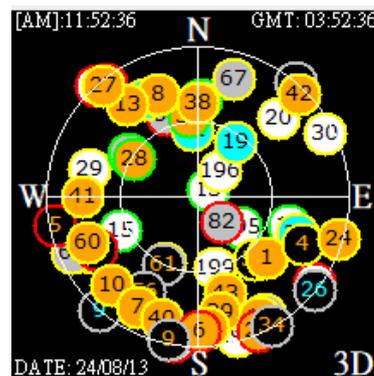
## Clicks and Double Clicks

- Click on the Radar Window, it allows toggling (turning on or off) the direction (North, East, South, West) and cross-line indication. Double clicks toggles the normal/shrunk NaviViewerM9V.

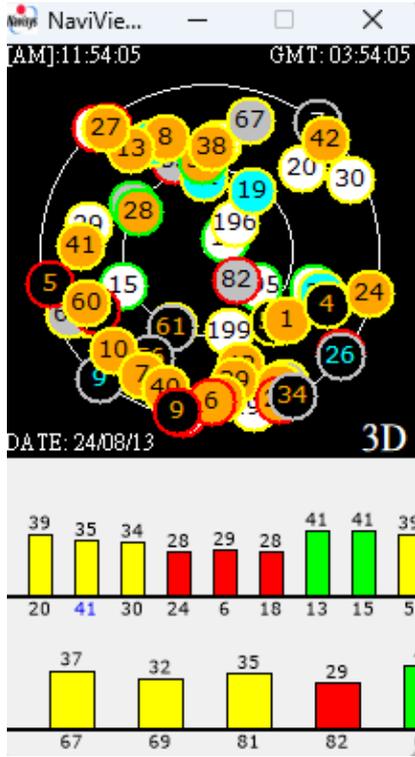
E.g. click on following window



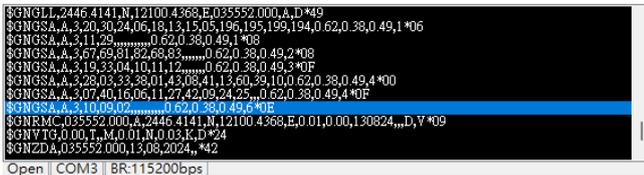
Get



If double click it, one gets the shrunk viewer as shown below.



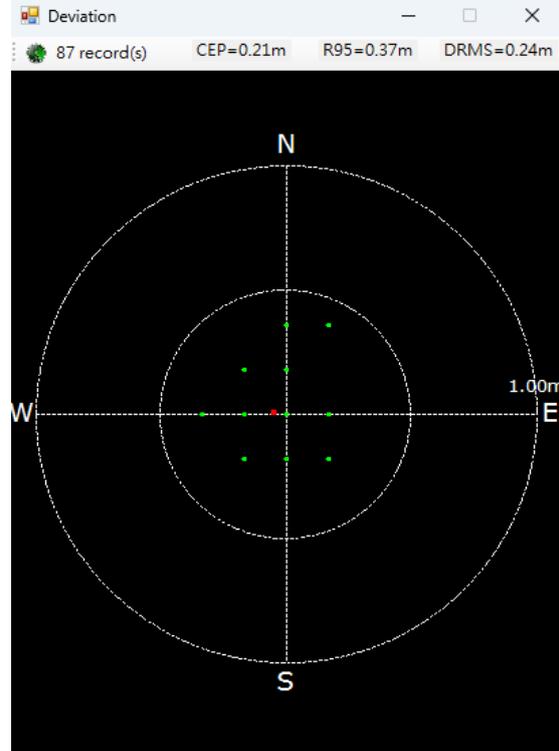
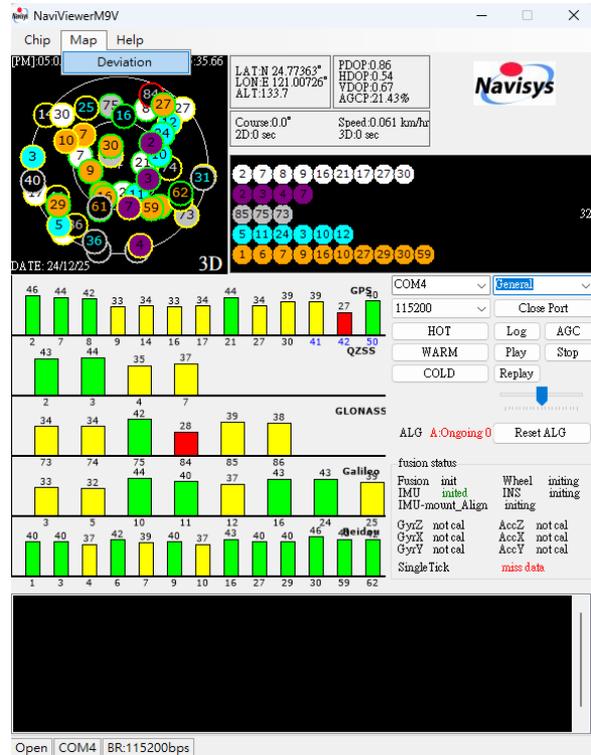
2. Click on the display console, display suspends.



One more click resumes display.

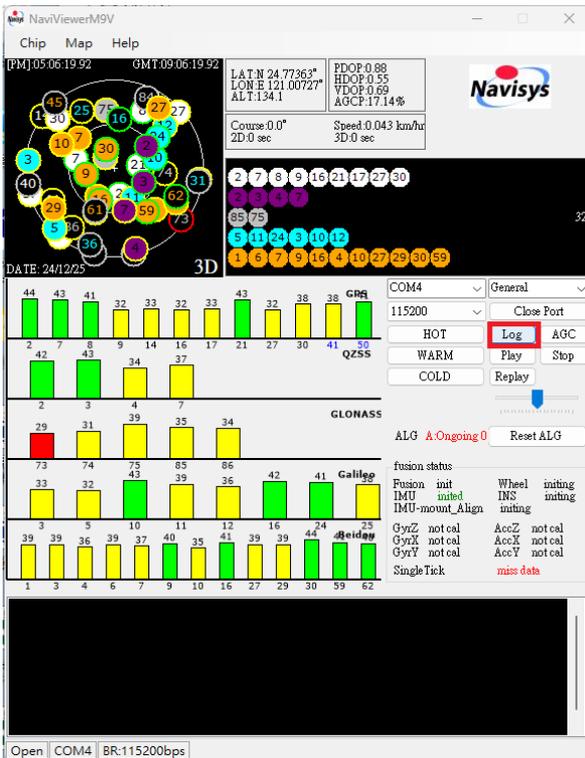
## Deviation function operation

1. Click on **Map => Deviation** to create the Deviation window for deviation statistics.

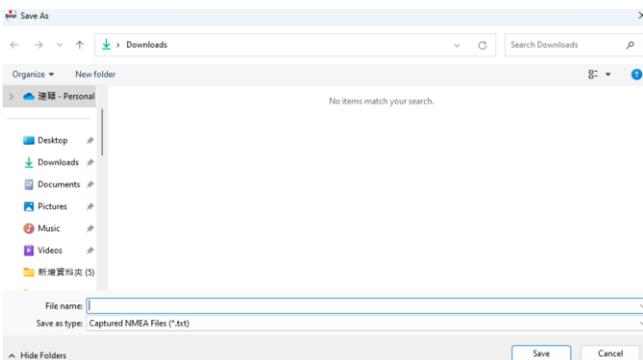


## Log the Output

1. Click on **Log**.

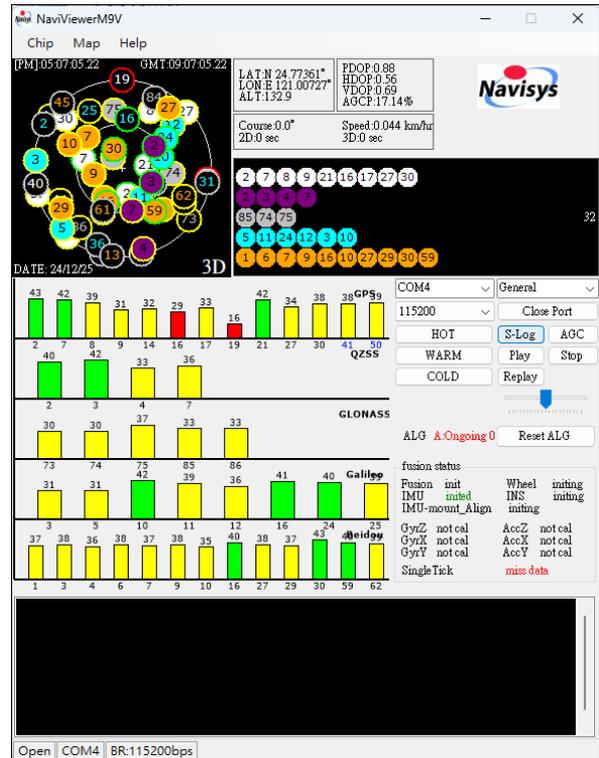


Open the window and save log file

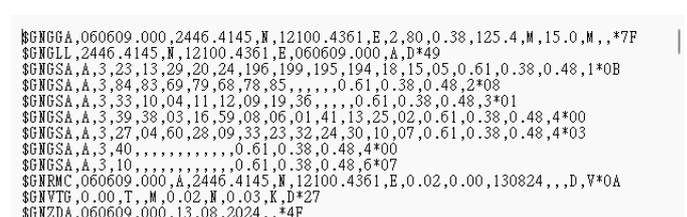


## Stop Log

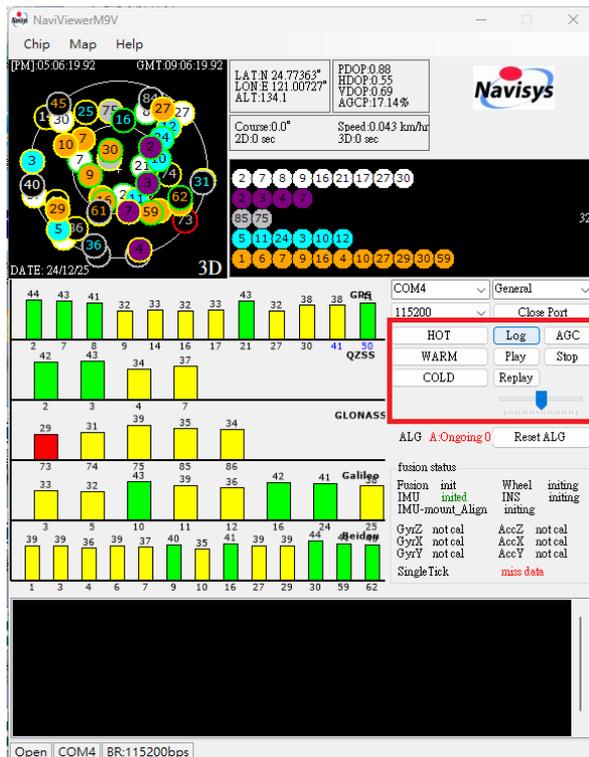
1. Click on **S-Log**.



Open the log file by an editor/viewer tool.

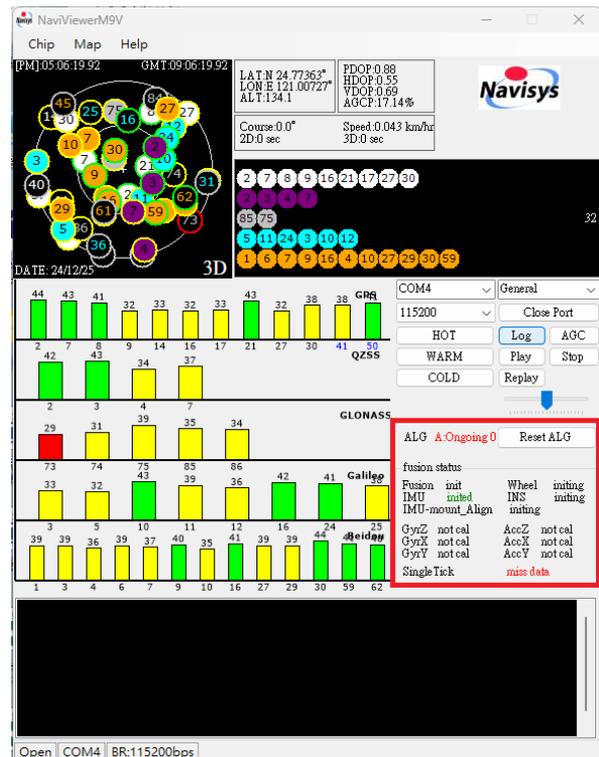


## Other functions



- Click on HOT : Hot start.
- Click on WARM : Warm start.
- Click on COLD : Cold start.
- Click on AGC : To refresh AGC percentage, AGCP.
- Click on Play: To select the file to play.
- Click on Stop : To stop playback.
- Click on Replay : To replay the log file.

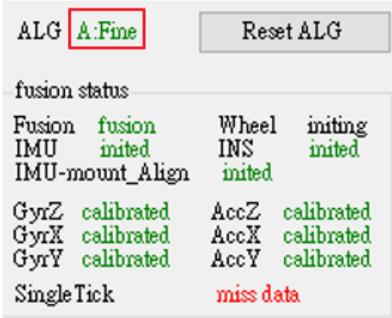
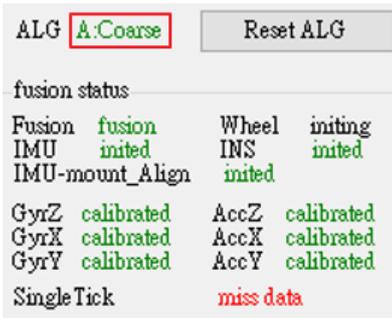
## DR (Dead Reckoning)



The DR function needs to be calibrated before it could be used for navigation. Related calibration information is shown below:



ALG is abbreviated for alignment. It transits from **Ongoing** to **Coarse** and then **Fine** during calibration process.



In above pictures, there is no ADR wheel ticks input and thus **Wheel** state would always be **initing** and **Single Tick** shows **miss data**.

The DR function starts to work after the alignment status is **Coarse**, the “DR” wording is shown as in red rectangle in below picture.



If the **Reset ALG** button is clicked, all the calibration data would be cleared. It should be used only when one moves the installation location of GR-8018 and the calibration should be done again. Please use it carefully. Otherwise, one would need to recalibrate it again.