

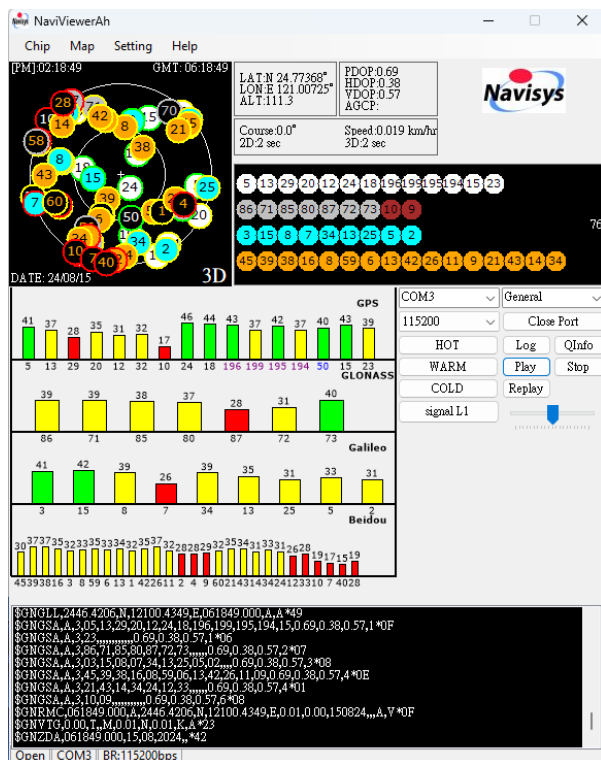
Quick Guide of NaviViewerAh

Overview

NaviViewerAh is a GNSS viewer tool developed by Navisys Technology Corp. Navisys keeps the use of NaviViewerAh 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

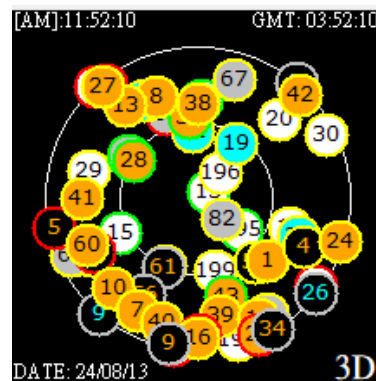
- Signal strength is represented by the bar length and color
 - Blue: ≥ 50 , green: ≥ 40 , yellow: ≥ 30 , red: < 30
- Satellites of different systems are displayed by different colors:



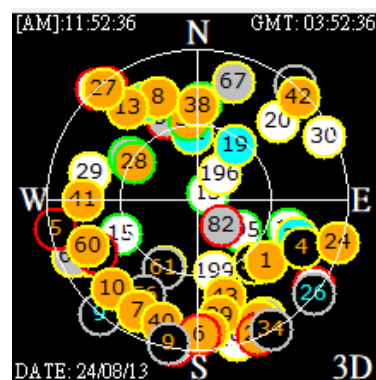
Clicks and Double Clicks

- 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 NaviViewerAh.

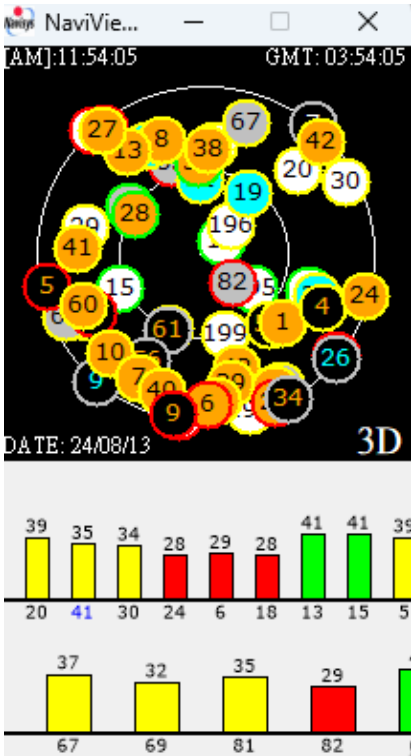
E.g. click on following window



Get



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



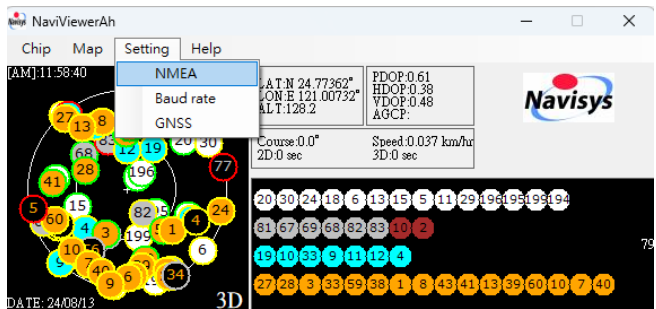
that, it returns to normal display.

```
$PAIR073
$PAIR001,073,0*3F
$PAIR073,5*27
```

Open COM3 8R:115200bps

Setting - NMEA

1. Click on **Setting => NMEA.**



Get left below.

- Click on the **display console**, display suspends.

```
$GNGLL 2446.4141,N,12100.4368,E,035552.000,A,D,M9
$GNGSA,A,3,20.30,24.06,18.13,15.05,196.195,199.194,0.62,0.38,49.1*06
$GNGSA,A,3,11.29,00.00,0.62,0.38,49.1*08
$GNGSA,A,3,67.69,81.82,68.83,0.62,0.38,49.4*08
$GNGSA,A,3,19.33,04.10,11.12,0.62,0.38,49.3*0F
$GNGSA,A,3,28.03,33.38,0.62,0.38,49.1*00
$GNGSA,A,3,07.40,16.06,11.27,4.02,24.25,0.62,0.38,49.4*0F
$GNGSA,A,3,03.00,01.00,0.62,0.38,49.4*06
$GNRMG,035552.000,A,2446.4141,N,12100.4368,E,0.01,0.00,130824,,D,Y*09
$GNITG,0.0,T,M,0.0,D1,N,0.03,K,D*24
$GNZDA,035552.000,13,08,2024,,*42

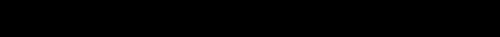
Open | COM3 | BR-115200bps |
```

One more click resumes display.

- Double click on the **display console** suspends display for entering a PAIR command.



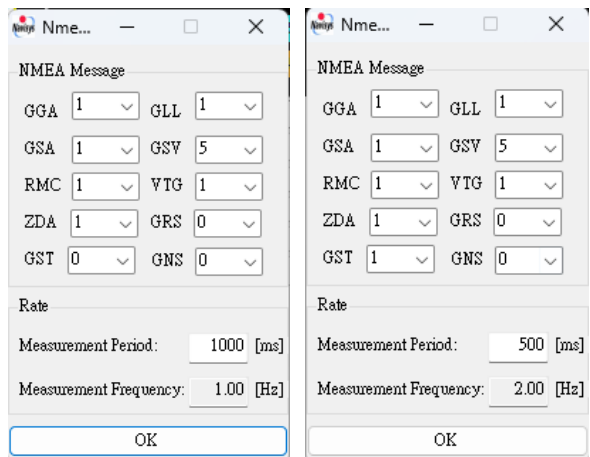
- One more double click prompts for command



\$PAIR

Open || COM3 || BR:115200bps

- For example, to check the elevation mask, append 073 and enter to finish the command.
- The result of 5 degree above horizon is output and suspends for 5 seconds. After

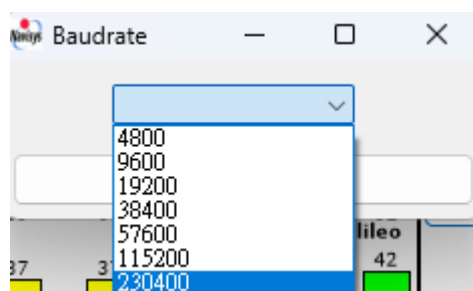
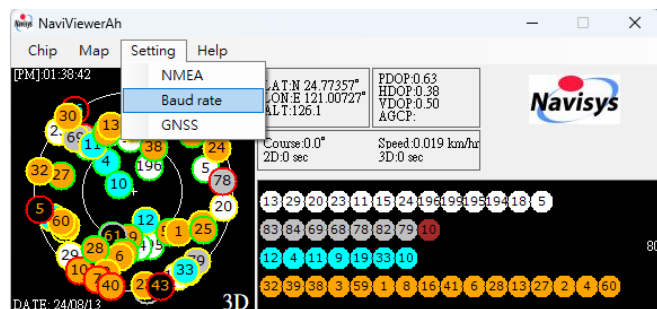


Change it to right above and click on . It outputs GGA,GSA,RMC,ZDA,GST,LL,VTG every second and GSV every 5 seconds. Update rate 2 Hz.

Please be noted that higher update rate (measurement frequency) outputs more data per second and thus may require higher baud rate to avoid data loss.

Setting – Baud rate

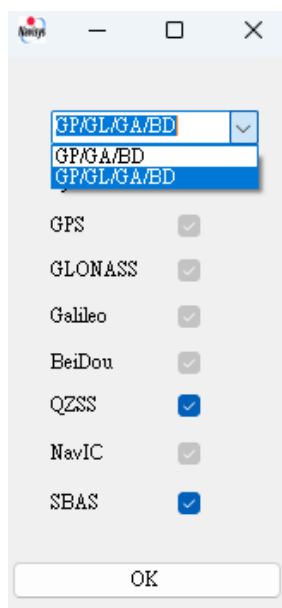
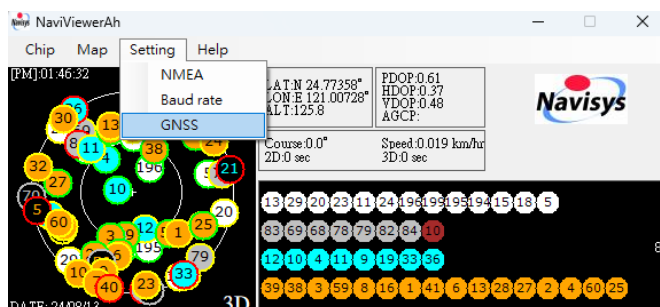
1. Click on **Setting => Baud rate**.



Select the new baud rate and press **OK**. The output suspends. Please close port and open with new baud rate to resume communication with GNSS.

Setting – GNSS

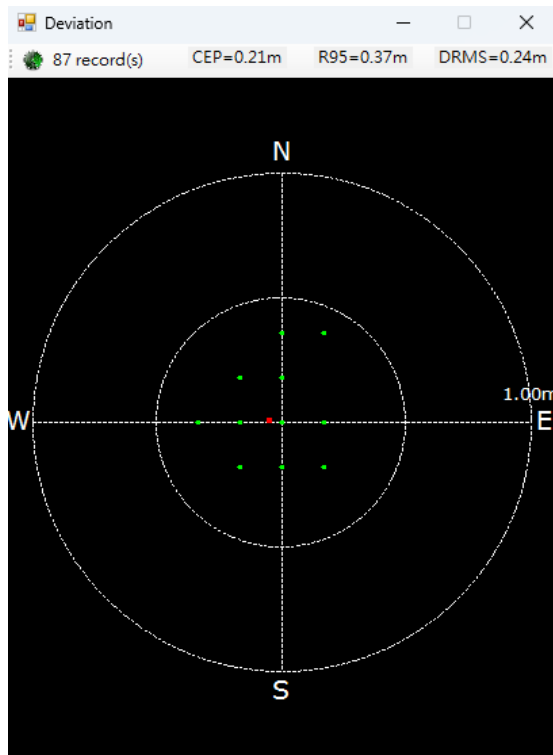
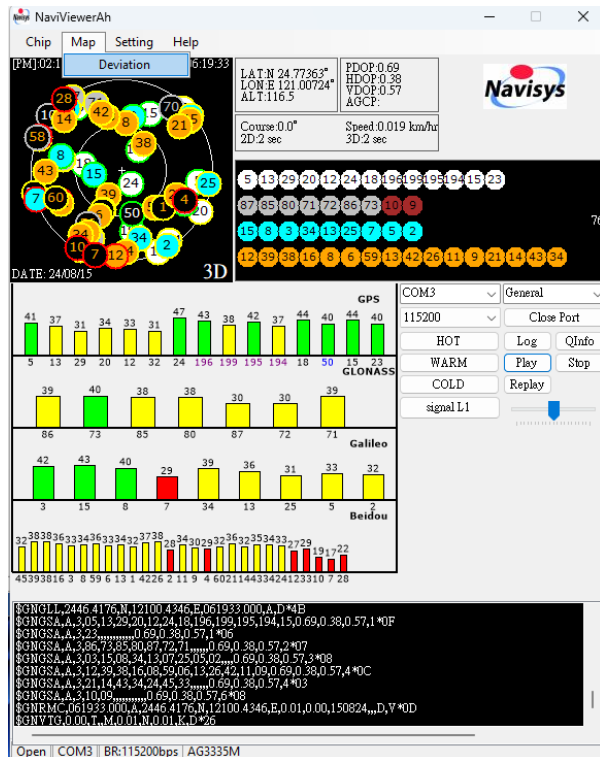
1. Click on **Setting => GNSS** for enable/disable satellite systems



Select the GNSS that needs to be changed and press **OK**.

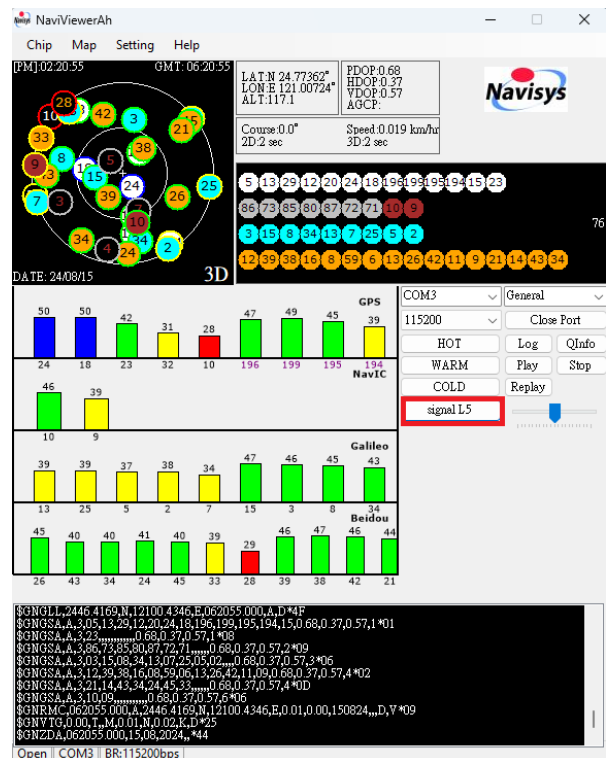
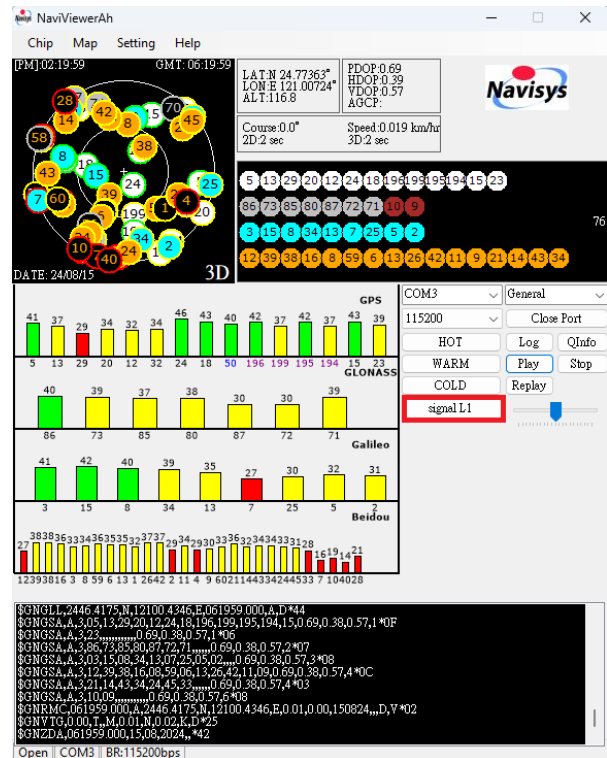
Deviation function operation

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



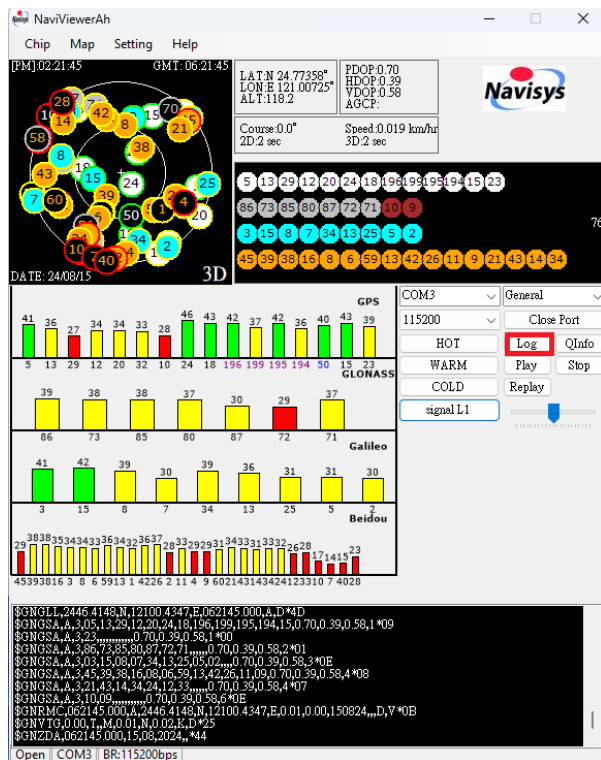
Switch satellite band L1/L5

1. Click on **signal L1 / L5**.

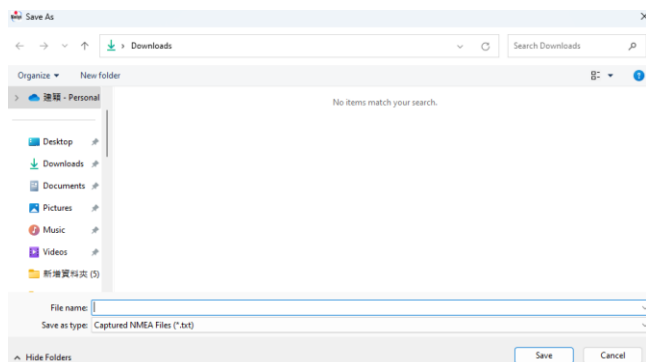


Log the Output

1. Click on **Log**.

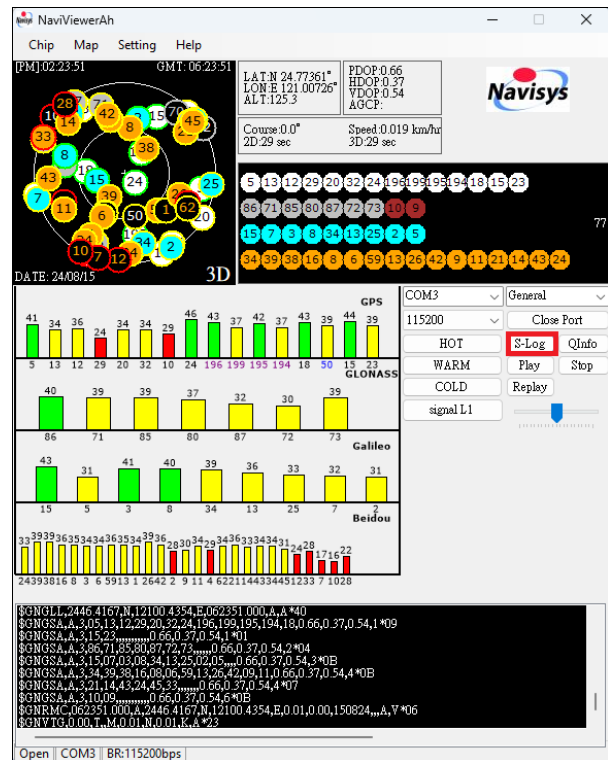


Open the window and save log file.



Stop Log

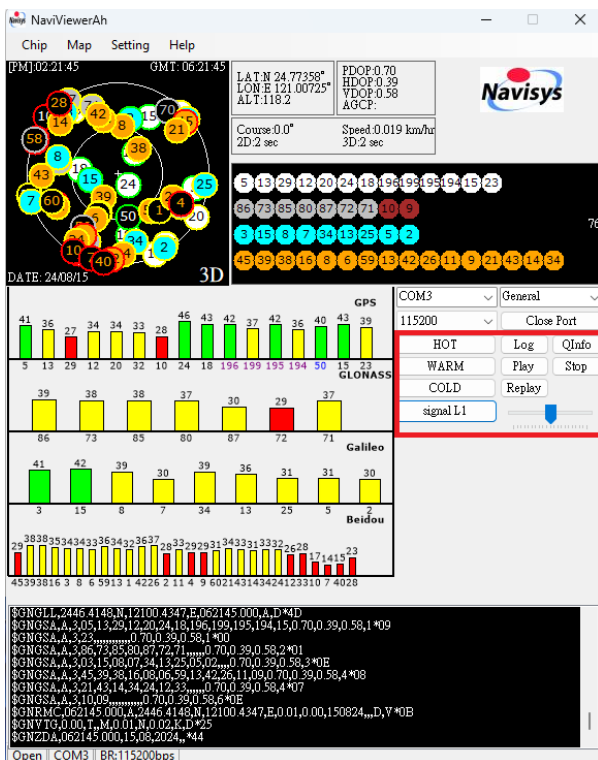
1. Click on **S-Log**.



Open the log file by an editor/viewer tool.

```
$GNGGA,0.00,2.44,4.15,N,12.00,4.36,E,2.80,0.38,125.4,M,15.0,M,,*7F
$GNGLL,2.44,4.15,N,12.00,4.36,E,0.00,0.00,A,D*49
$GNGSA,A,3,23,13,29,20,24,196,199,195,194,18,15,05,0.61,0.38,0.48,1*0B
$GNGSA,A,3,84,83,69,79,68,78,85,,,,,0.61,0.38,0.48,2*08
$GNGSA,A,3,33,10,04,11,12,09,19,36,,,,,0.61,0.38,0.48,3*01
$GNGSA,A,3,39,38,03,16,59,08,06,01,41,13,25,02,0.61,0.38,0.48,4*00
$GNGSA,A,3,27,04,60,28,09,33,23,24,30,10,07,0.61,0.38,0.48,4*03
$GNGSA,A,3,40,,,,,,0.61,0.38,0.48,4*00
$GNGSA,A,3,10,,,,,,0.61,0.38,0.48,6*07
$GNRMC,0.00,A,2.44,4.15,N,12.00,4.36,E,0.02,0.00,130824,,,D,V*0A
$GNVTG,0.00,T,M,0.02,N,0.03,K,D*27
$GNZDA,0.00,0.00,13.08,2024,,*4F
```

Other functions



Click on HOT : Hot start.

Click on WARM : Warm start.

Click on COLD : Cold start.

Click on Play: Press the button to select the file out of the window, select the file to play.

Click on QInfo : Show firmware version below the display console.

Click on Replay : Replay the log file.

Click on Stop : stop playback.