

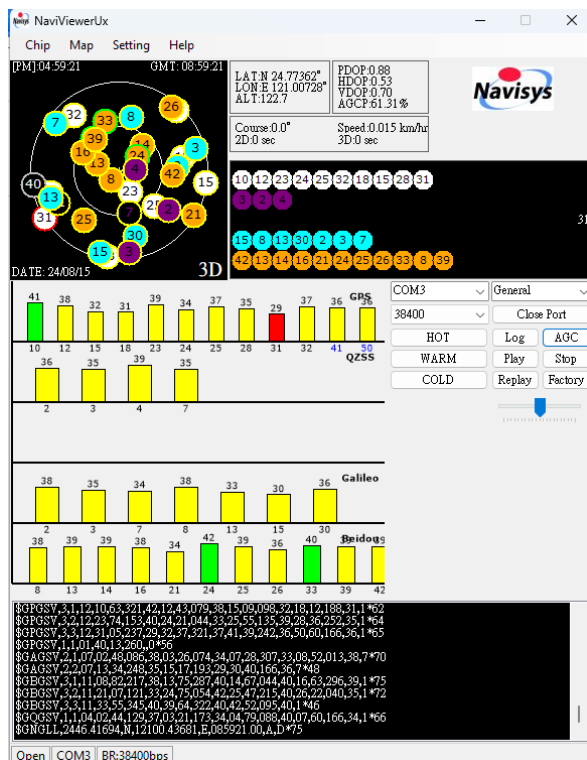
Quick Guide of NaviViewerUx

Overview

NaviViewerUx is a GNSS viewer tool developed by NaviSys Technology Corp. NaviSys keeps the use of NaviViewerUx 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

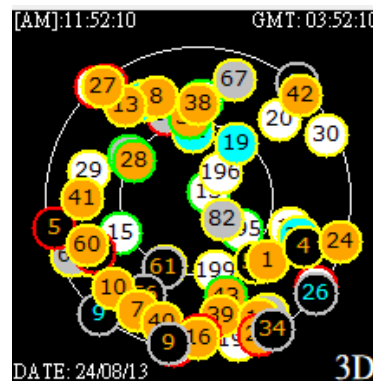
- Signal strength is represented by the bar length and color
 - Blue: ≥ 50 , green: ≥ 40 , yellow: ≥ 30 , red: < 30
- Satellites of different systems are displayed by different colors:



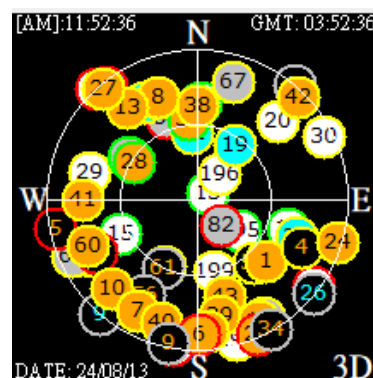
Clicks and Double Clicks

- 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 NaviViewerUx.

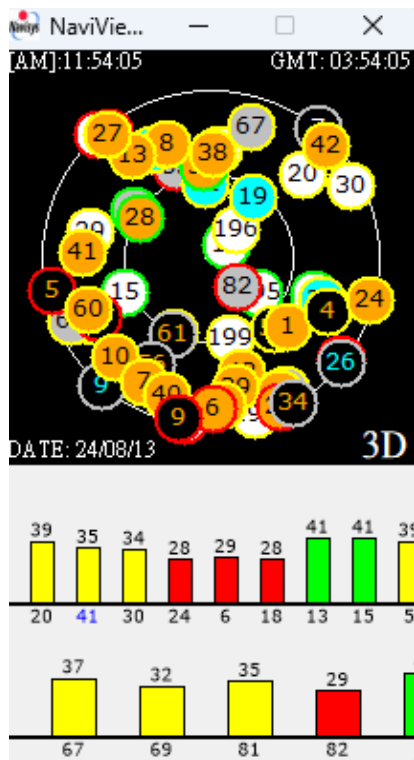
E.g. click on following window



Get



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



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

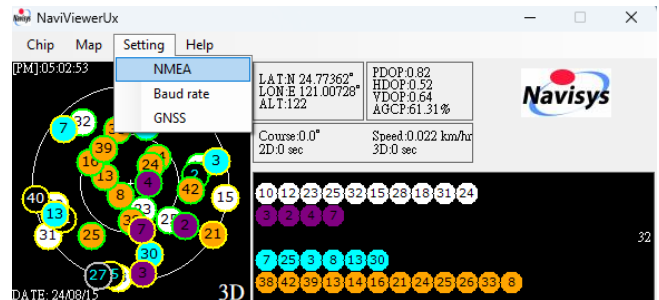
```

$GNGLL,2446.4141,N,12100.4368,E,0.035552,0.000,A,D,M,0
$GNGSA,A,3,20.30,24.06,18.13,15.05,196.195,199.194,0.62,0.38,0.49,1*06
$GNGSA,A,3,11.29,,,,,,0.62,0.38,0.49,1*08
$GNGSA,A,3,67.69,81.82,68.83,,,,,0.62,0.38,0.49,2*08
$GNGSA,A,3,19.33,04.10,11.12,,,,,0.62,0.38,0.49,3*0F
$GNGSA,A,3,28.03,33.38,01.43,08.41,13.60,39.10,0.62,0.38,0.49,4*00
$GNGSA,A,3,07.40,16.06,11.27,42.09,24.25,,,,0.62,0.38,0.49,4*0F
$GNGSA,A,2,10.09,02,,,,,0.62,0.38,0.49,0*0E
$GNRMC,0.035552,0.00,A,2446.4141,N,12100.4368,E,0.01,0.00,130824,,,D,V*09
$GNVTG,0.00,T,M,0.01,N,0.03,K,D*24
$GNZDA,0.035552,0.00,13,08,2024,,*42
  
```

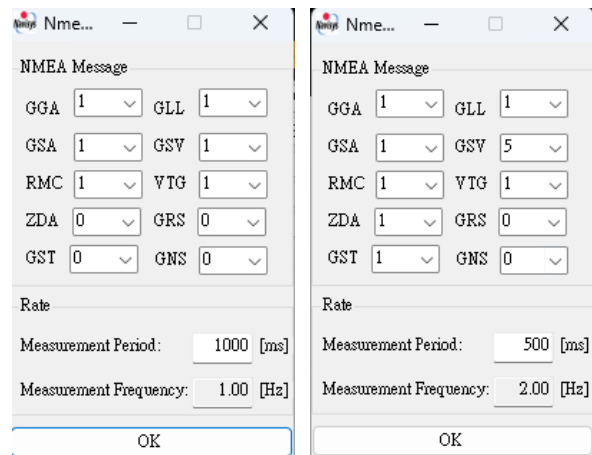
One more click resumes display.

Setting - NMEA

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



Get left below.

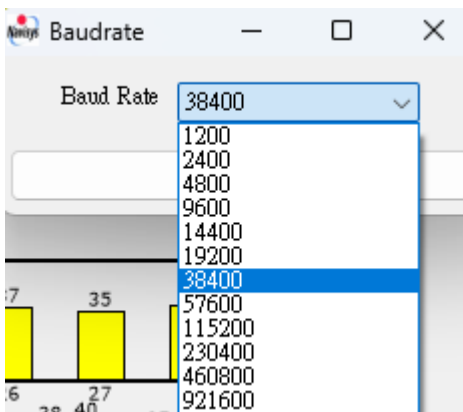
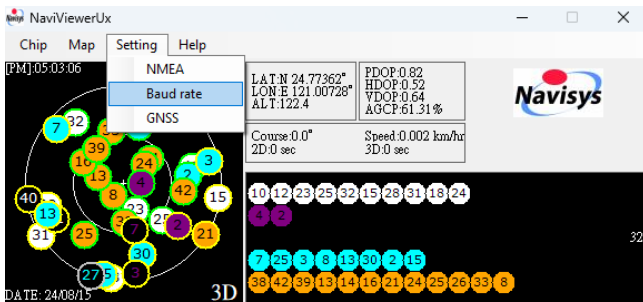


Change it to right above and click on **OK**. It outputs GGA,GSA,RMC,ZDA,GST,LL,VTG every second and GSV every 5 seconds. Update rate 2 Hz.

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

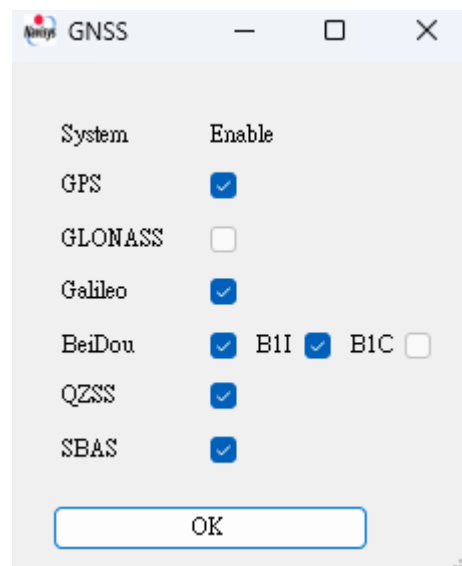
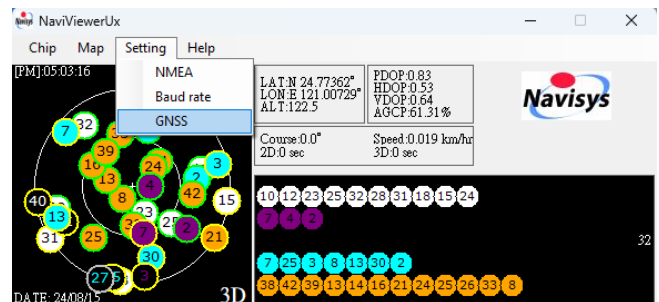
1. Click on **Setting => Baud rate**.



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

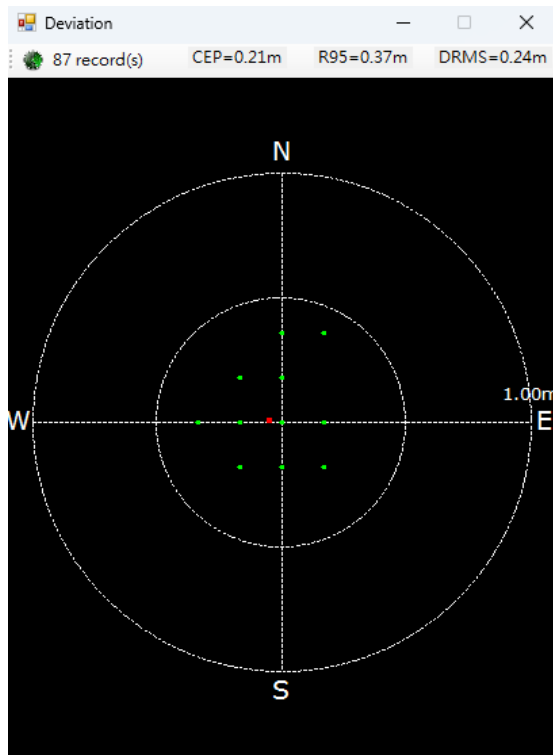
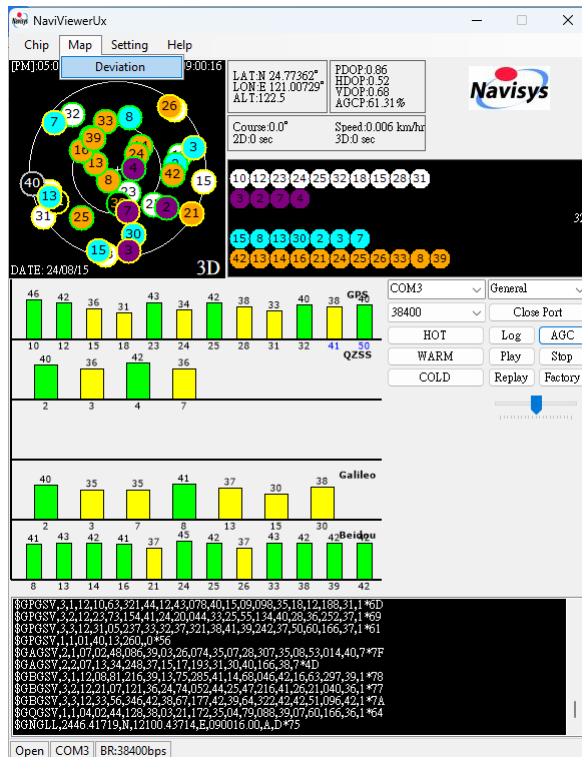
1. Click on **Setting => GNSS** for enable/disable satellite systems



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

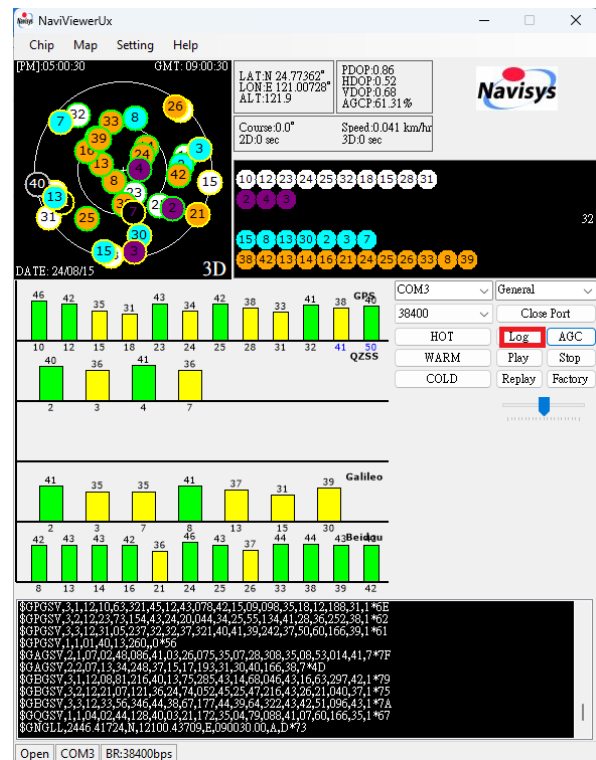
Deviation function operation

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

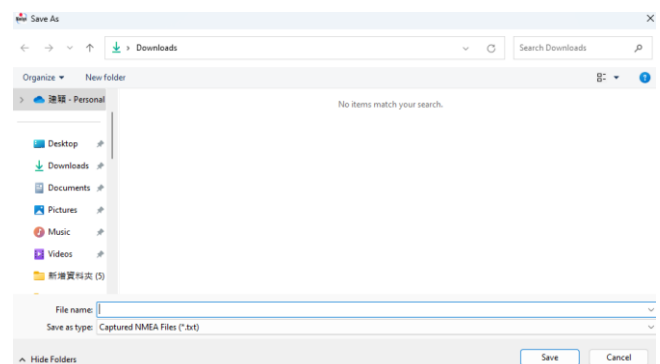


Log the Output

1. Click on **Log**.

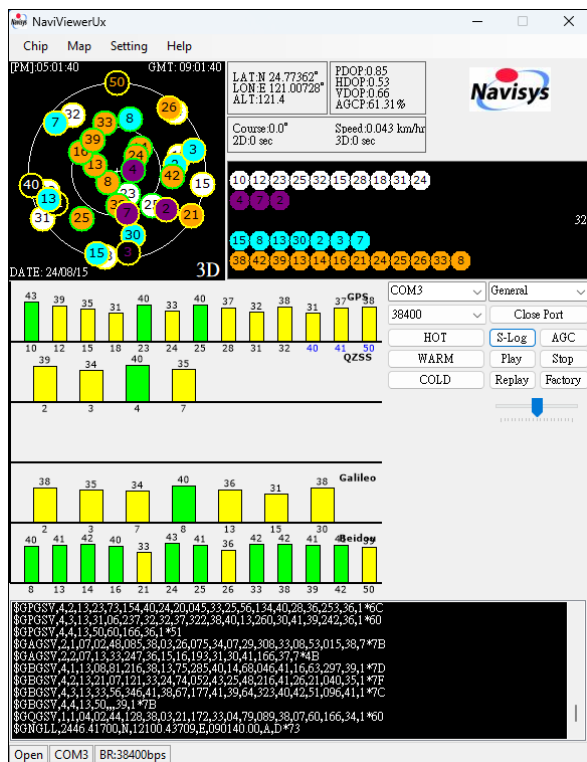


Open the window and save log file



Stop Log

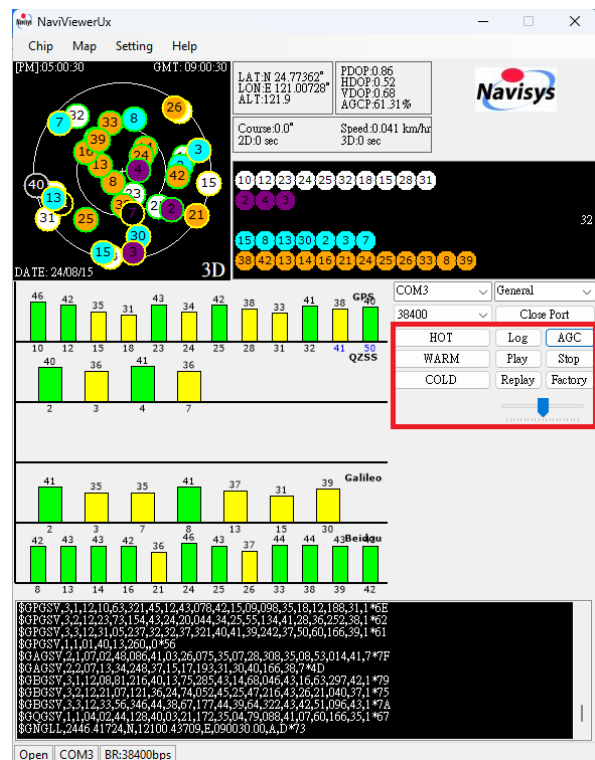
1. Click on **S-Log**.



Open the log file by an editor/viewer tool.

```
$GNGGA,060609.000,2446.4145,N,12100.4361,E,2.80,0.38,125.4,M,15.0,M,,*7F
$GNGLL,2446.4145,N,12100.4361,E,060609.000,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,3,27,04,60,28,09,33,23,32,24,30,10,07,0.61,0.38,0.48,4*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,060609.000,A,2446.4145,N,12100.4361,E,0.02,0.00,130824,,D,V*0A
$GNVTG,0.00,T,,M,0.02,N,0.03,K,D*27
$GNZDA,060609.000,13,08,2024,,*4F
```

Other functions



Click on HOT : Hot start.

Click on WARM : Warm start.

Click on COLD : Cold start.

Click on AGC : Refresh AGCP.

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

Click on Stop : stop playback.

Click on Replay : Replay the log file.

Click on Factory : Perform a factory reset