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.



Open COM3 BR:38400bps

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

Signal Bars

- 1. Signal strength is represented by the bar length and color
 - Blue: \geq 50, green: \geq 40, yellow: \geq 30, red: < 30
- 2. 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







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NaviSys Technology - Your Location Partner

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



2. Click on the display console, display suspends.

	_
\$GNGLL,2446.4141,N,12100.4368,E,035552.000,A,D*49	
\$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,3,10,09,02,0.62,0.38,0.49,6*0E	
\$GNRMC,035552.000,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,035552.000,13,08,2024,,*42	
Open COM3 BR:115200bps	1

One more click resumes display.

Setting - NMEA

1. Click on Setting => NMEA.



Get left below.

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NMEA Message	NMEA Message					
$_{\rm GGA}$ 1 \sim $_{\rm GLL}$ 1 \sim	$_{\rm GGA}$ 1 \sim $_{\rm GLL}$ 1 \sim					
GSA $1 \lor$ GSV $1 \lor$	GSA 1 \checkmark GSV 5 \checkmark					
RMC 1 \checkmark VTG 1 \checkmark	RMC 1 \checkmark VTG 1 \checkmark					
ZDA 0 \checkmark GRS 0 \checkmark	ZDA 1 \checkmark GRS 0 \checkmark					
GST 0 \checkmark GNS 0 \checkmark	GST 1 \checkmark GNS 0 \checkmark					
Rate	Rate					
Measurement Period:1000 [ms]	Measurement Period:500 [ms]					
Measurement Frequency: 1.00 [Hz]	Measurement Frequency: 2.00 [Hz]					
ОК	ОК					

Change it to right above and click on OK. It outputs GGA,GSA,RMC,ZDA,GST,GLL,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.

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Setting – GNSS

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

💀 Navi	ViewerUx							-		\times
Chip	Map Set	ting	Help				_			
[PM]:05:0	3:16	Baud	A rate	LAT:N 2 LON:E 1:	4.77362° 21.00729°	PDOP:0.83 HDOP:0.53 VDOP:0.64		Nav	isvs	
	32	GNS	5	Commi0		AGCP:61.31%		C		
	39 16	24	<u> (3</u>)	2D:0 sec	.0	3D:0 sec	л ц			
(40)	13		42 15	10 12 2	23 25 32	28 31 18 15	24			
31	25	32	2)21	7 4	2					32
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(GLONA:	SS								
(Galileo		\sim							
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Select the GNSS that needs to be changed and press OK.

Deviation function operation

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



Log the Output



Open the window and save log file

New Save As						×
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Organize 👻 New folder					8: •	0
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🔚 Desktop 🖈						
🛓 Downloads 🌧						
🔛 Documents 🏓						
🔀 Pictures 🛷						
🕖 Music 🛷						
🛂 Videos 🛷						
■新増資料次(5)						
File name:						~
Save as type: Captured NMEA Files (*.txt)						~
∧ Hide Folders				Save	Cancel	

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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, N, 15.0, N, ,*7F \$GNGL,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,3,33, 13, 29, 20, 24, 196, 199, 195, 194, 18, 15, 05, 0.61, 0.38, 0.48, 1*0B \$GNGSA,A,3, 33, 10, 04, 11, 12, 09, 19, 36, .., 0.61, 0.38, 0.48, 2*00 \$GNGSA,A,3, 39, 38, 05, 16, 59, 08, 06, 01, 41, 13, 25, 02, 0.61, 0.38, 0.48, 4*00 \$GNGSA,A,3, 30, 20, 16, 02, 80, 93, 23, 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, 40, ..., 0.61, 0.38, 0.48, 6*07 \$GNGSA,A,3, 40, ..., 0.02, N, 0.03, K, D*27 \$GNGSA,0,006009.000, 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