# Modification guide for parameters of Columbus V-800 MarkII Oct 2019

## Factory settings

Output sentences: \$GPGGA, \$GPGSA, \$GPGSV, \$GPRMC, \$GPVTG. Refresh rate: The above sentences is output once every second. Baud rate: 38,400bps You can modify the parameters of the V800 MarkII according to actual needs.

## How to modify the Baud rate

1. Run "J-Nav GPS Analyzer"



2. Select the port and Baud rate where the V800 is located, click "OpenPort", then click the icon in the top right corner.



3. In the pop-up dialog box, select "Read Information" to read the current settings.



4. Select the baud rate you need in "BaudRate", click "Select", then click "Execute".

CommandSetting	×
Read Information	Write Infomation
User Define Message	CR Execute
	M LF3
<pre><flash write="">         SPSRF201, SPSRF109         Com A         Protocol NMEA          BaudRate 38400          1   G MT33         GGA 1   GLL 0   GSA 1   GSY 1         Select 2 </flash></pre>	elect ard 39 BaudRate LED V RMC 1 VTG 1 VZDA 0 V Select Cancel

### How to set the output sentences

- 1. Repeat Step1-3 as above.
- Select the output sentences you need in "NMEA", click "Select", then click "Execute". Remarks: "0" means disable this sentence, "1" means output once every second, "10" means output once per ten seconds.

CommandSetting		×
Read Information		Write Infomation
User Define Message		CR Execute
spSRF110,0,10,10,3,1,2,0,0,0,10,21*39 3		
< FLASH Write > \$PSRF201, \$PSRF109	Product Select -	
Protocol NMEA -	C Standard	Protocol GPIO -
BaudRate 38400 💌	• MT3339	BaudRate LED 💌
Select 2 Select Cancel 1		

### How to modify the output refresh rate.

- 1. Repeat Step 1-3 as above.
- Modify the refresh rate to 1Hz (output once every second): In box 1, enter: "\$PSRF110,0,10,30,1,1,0,0,0,10,21", click "Execute".

• Modify the refresh rate to 2Hz (output twice every second): In box 1, enter: "\$PSRF110,0,10,10,3,1,2,0,0,0,10,21", click "Execute".

• Modify the refresh rate to 5Hz (output five times every second): In box 1, enter: "\$PSRF110,0,10,10,3,1,5,0,0,0,10,21", click "Execute".

Con	nmandSetting		×
	Read Information		Write Infomation
_U:	ser Define Message		
\$	PSRF110,0,10,10,3,1,2,0,0,0,10,2	21*39	└ CR Execute
\$	PSRF110,0,10,10,3,1,2,0,0,0,10,2	21*39	1 2
	FLASH Write >		
Г	\$PSRF201, \$PSRF109		
	Com A	Product Sele	ect Com B
	Protocol NMEA 💌	C Standard	d Protocol GPIO 💌
	BaudRate 38400 💌	• MT3339	BaudRate LED
NMEA GGA 1 V GLL 0 V GSA 1 VGSV 1 V RMC 1 V TG 1 VZDA 0 V			
	Select Select Cancel		

• Modify the refresh rate to 10Hz (output ten times every second):

Need to disable GSV first (Because the data amount of 10Hz is too large, you must disable the GSV sentence.) Select "GSV" as "0", click "Execute".

CommandSetting		:
Read Information		Write Infomation
User Define Message		CR Execute
\$PSRF110,0,10,10,3,1,2,0,0,0,10	,21*39	2
<pre>&lt; FLASH Write &gt;</pre>	Product Selec C Standard © MT3339	Com B Protocol GPIO BaudRate ED RMC1  VTG1  ZDA 0
Sele	ct 1	elect Cancel

In box 1,enter: "\$PSRF110,0,10,10,3,1,10,0,0,0,10,21", click "Execute".

CommandSetting		>	
Read Information		Write Infomation	
User Define Message			
\$PSRF110,0,10,10,3,1,2,0,0,0,10,	\$PSRF110,0,10,10,3,1,2,0,0,0,10,21*39		
\$PSRF110,0,10,10,3,1,2,0,0,0,10,	\$PSRF110,0,10,10,3,1,2,0,0,0,10,21*39         1         2		
<pre>&lt; FLASH Write &gt;     \$PSRF201, \$PSRF109     Com A     Protocol NMEA      BaudRate 38400      NMEA     GGA 1      GL 0      GSA 1     Select </pre>	Product Select C Standard (• MT3339) GSV 1 • RMC tt Select	Com B Protocol GPIO V BaudRate LED V 1 V VTG 1 V ZDA 0 V Cancel	