

Manual for Real-Time PPP with MADOCA Products

Rev.B

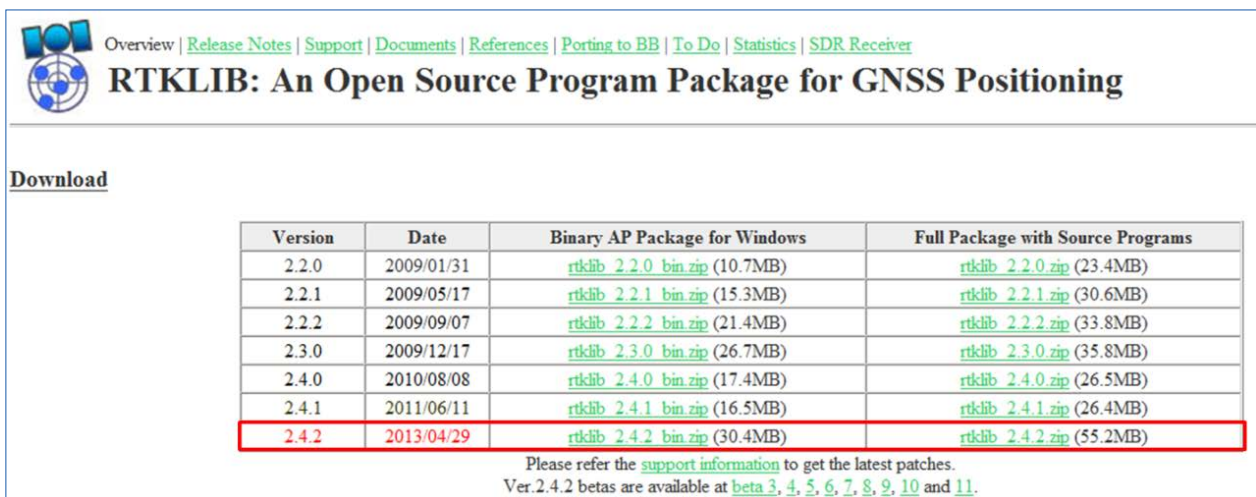
This manual describes way of real-time PPP with MADOCA products using RTKLIB[1]. For this procedure, your own accounts are necessary.

Reference: [1] <http://www.rtklib.com/>

1. Installation

Please download and install the latest version of RTKLIB from the following site.

➤ RTKLIB sites : <http://www.rtklib.com/>



Overview | [Release Notes](#) | [Support](#) | [Documents](#) | [References](#) | [Porting to BB](#) | [To Do](#) | [Statistics](#) | [SDR Receiver](#)

RTKLIB: An Open Source Program Package for GNSS Positioning

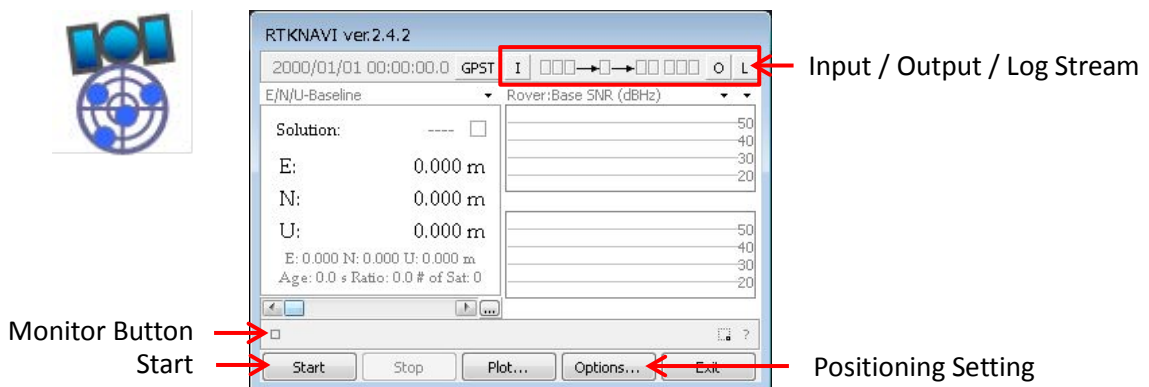
Download

Version	Date	Binary AP Package for Windows	Full Package with Source Programs
2.2.0	2009/01/31	rtklib 2.2.0 bin.zip (10.7MB)	rtklib 2.2.0.zip (23.4MB)
2.2.1	2009/05/17	rtklib 2.2.1 bin.zip (15.3MB)	rtklib 2.2.1.zip (30.6MB)
2.2.2	2009/09/07	rtklib 2.2.2 bin.zip (21.4MB)	rtklib 2.2.2.zip (33.8MB)
2.3.0	2009/12/17	rtklib 2.3.0 bin.zip (26.7MB)	rtklib 2.3.0.zip (35.8MB)
2.4.0	2010/08/08	rtklib 2.4.0 bin.zip (17.4MB)	rtklib 2.4.0.zip (26.5MB)
2.4.1	2011/06/11	rtklib 2.4.1 bin.zip (16.5MB)	rtklib 2.4.1.zip (26.4MB)
2.4.2	2013/04/29	rtklib 2.4.2 bin.zip (30.4MB)	rtklib 2.4.2.zip (55.2MB)

Please refer the [support information](#) to get the latest patches.
Ver.2.4.2 betas are available at [beta 3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#) and [11](#).

2. Real-time PPP with MADOCA products

(1) Please execute **RTKNAVI.exe** in the folder “(Install dir)/rtklib_(ver)/bin” (double-click the icon).



RTKNAVI ver.2.4.2

2000/01/01 00:00:00.0 GPST I O L

E/N/U-Baseline Rover:Base SNR (dBHz)

Solution: ----

E: 0.000 m

N: 0.000 m

U: 0.000 m

E: 0.000 N: 0.000 U: 0.000 m

Age: 0.0 s Ratio: 0.0 # of Sat: 0

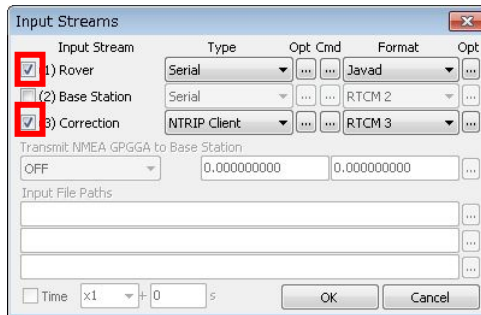
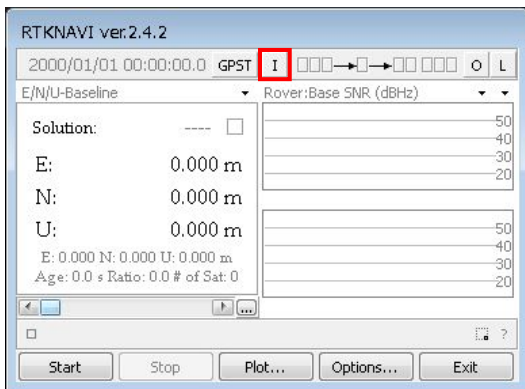
Monitor Button

Start

Input / Output / Log Stream

Positioning Setting

(2) Please click **I** button to set input Stream and check the boxes of **Rover** and **Correction**. In the case of PPP, Base Station are not required.

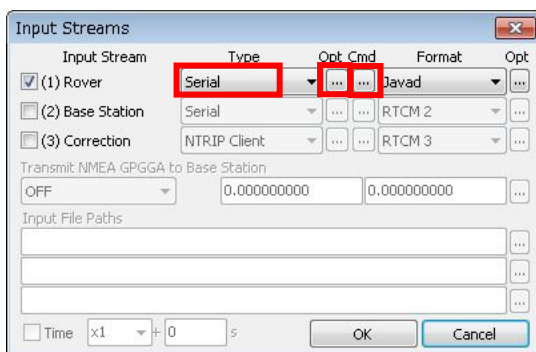


(2.1) Rover Setting

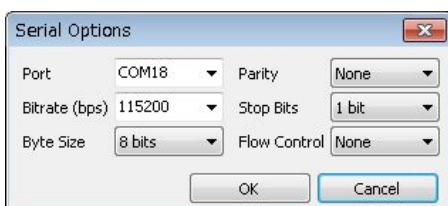
Please select the stream type among the following types supported RTKLIB.

- (a) Serial : Input data from a serial port (RS232C or USB)
- (b) TCP Client : Connect to a TCP server and input data via the TCP connection
- (c) TCP Server : Accept a TCP client connection and input data via the TCP connection
- (d) NTRIP Client : Connect to a NTRIP caster and input data via the NTRIP.
- (e) File : Input data from a log file.

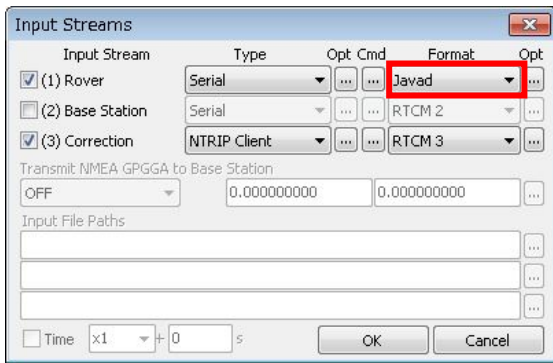
In this manual, the case of using JAVAD receiver via serial is introduced.



(2.1.2) Please click **Opt** button and set port, bitrate and so on. As necessary, please click **Cmd** and set commnd to receiver.

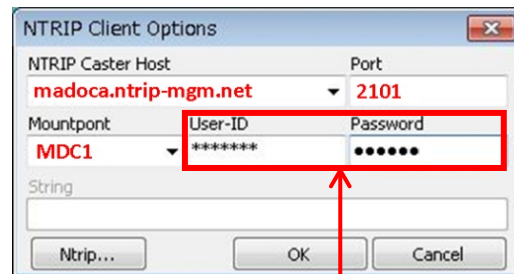
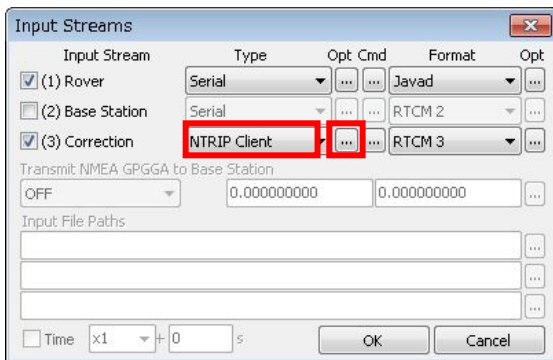


(2.1.3) Please click **Format** button and select your format.



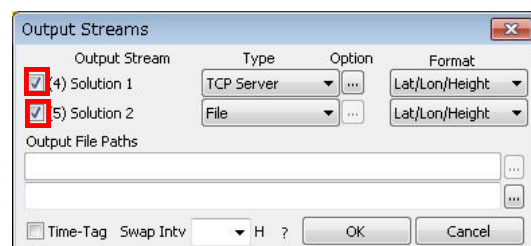
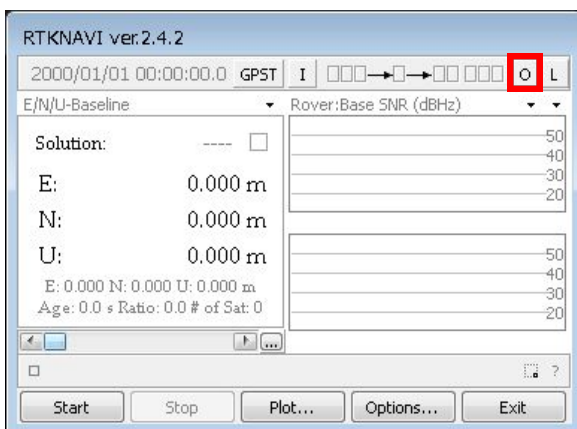
(2.2) Correction Setting

Please set **Ntrip Client** from the stream types and click **Opt** button to set Ntrip caster of MADOCA products. Please set NTRIP Client options as below.



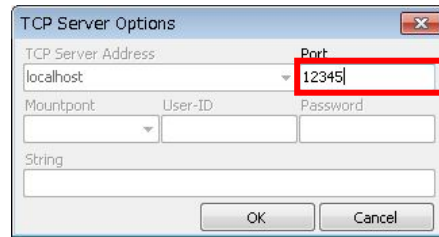
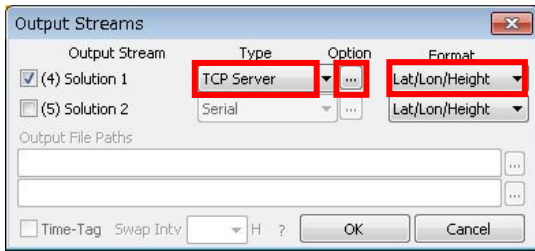
Your User Account & Password

(3) If you need output streams, please click **O** button and check the boxes of **Solution1** and **Solution2**.



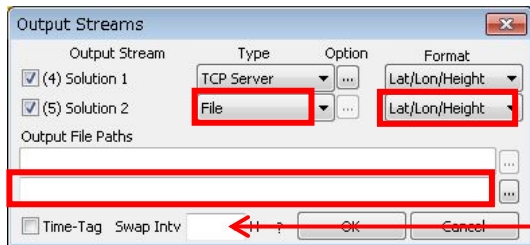
(3.1) TCP Setting

Please set **TCP server** as stream type and click “Option” to set port of output stream. Please click Format button and select the solution format you like.



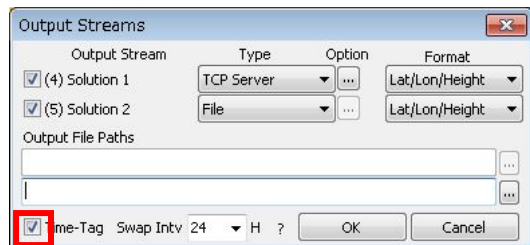
(3.2) FILE Setting

Please set **File** as stream type and select the solution format you like. Please insert output file path.

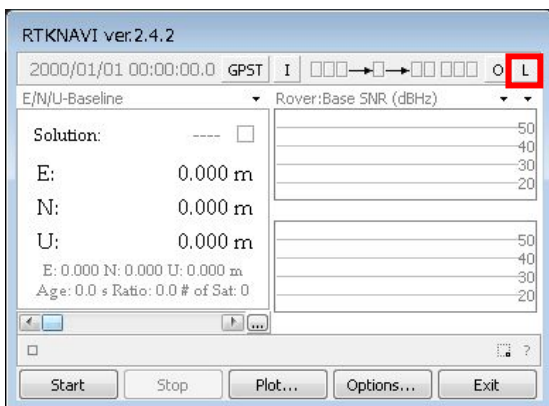


File Swap Interval

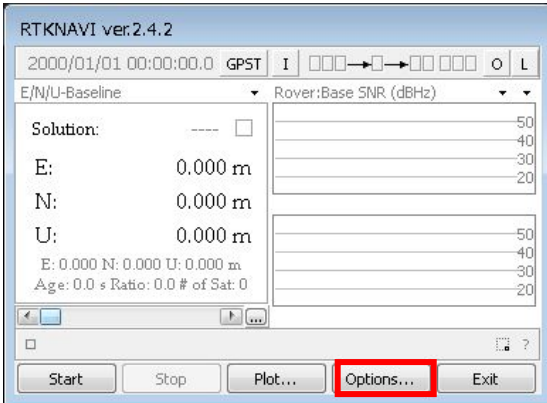
If time-tag is needed, please check the following box. .



(4) Please click **L** button to save the stream log , if needed. These settings are same as output setting (refer to (3)).



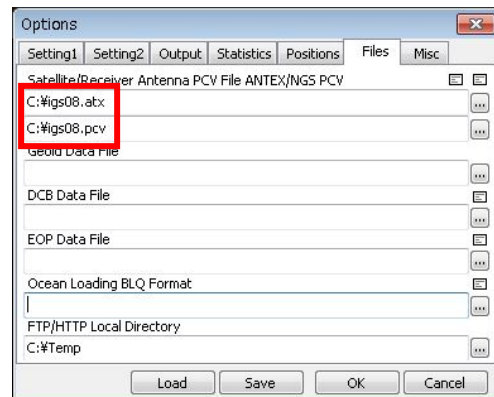
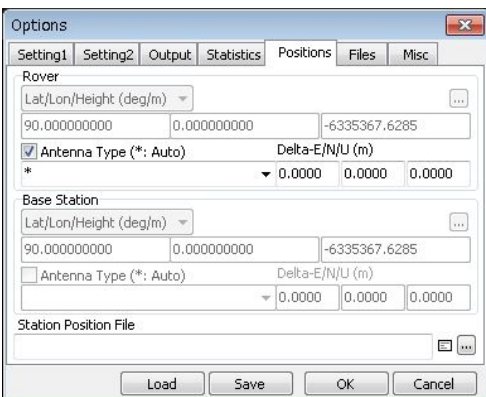
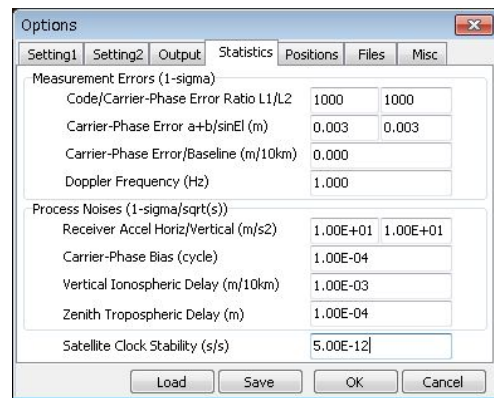
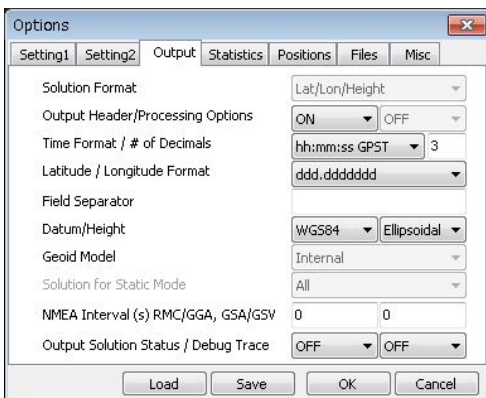
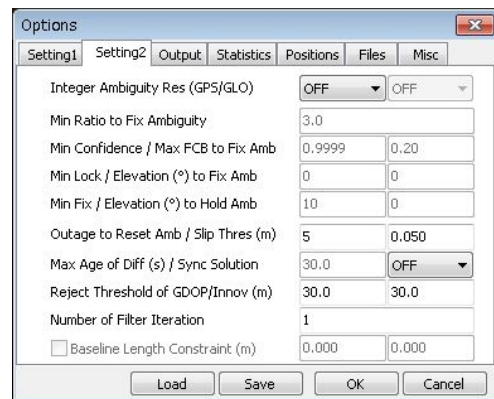
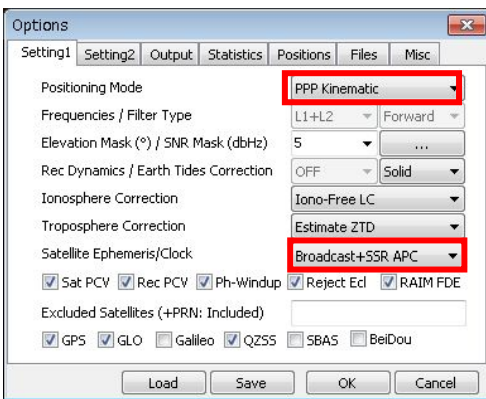
(5) Please click **Options...** to configure the positioning settings. In this manual, an example is shown.



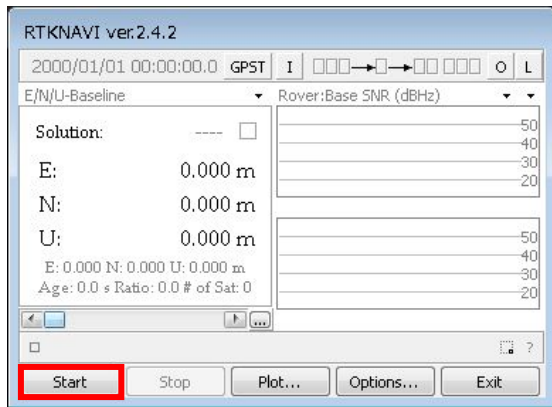
[B] Change of Sat

Ephemeris/Clock

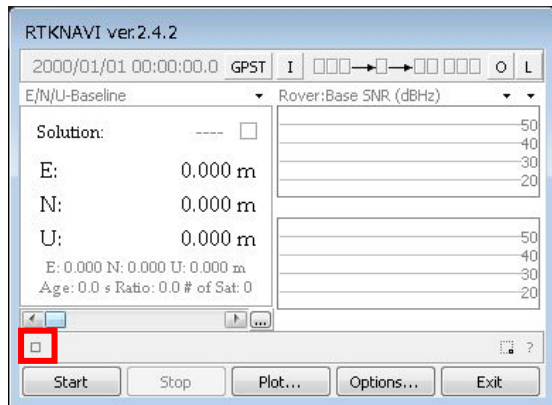
Example of Setting



(6) Please click button to start the calculation of PPP.



(7) Please click button to monitor status of PPP if needed.



(8) Please click button to plot the solution using **RTLPLLOT.exe** if needed. Please click [Edit] – [Option] for changing plot settings.

