SMAJAYU R26-V2 Gps RTK Surveying System User Manual

SMAJAYU(SHENZHEN) CO.,LTD
SMAJAYU R26-V2 base
User Manual

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R26-V2 Gps RTK Surveying System

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Preface
The R26 base can be used for two purposes:

1. Work as a radio base station or mobile station with other radio RTK or agricultural systems;
2. For static measurements

This article will explain these two usages in detail

Tip:
After you receive the new machine, press and hold the power button to turn it on. If the light does not respond, or the light turns off after a while, it means that the machine is out of power. Please connect the adapter to charge it before using it.

R26 Device

1.1 Device List
Table 1 Device List

No.	Name	Quantity	Note
	R26	1	
2	Data Cable	1	
3	Power Adapter	1	
4	Radio Antenna	1	Stick
5	Device Box	1	

1.2 Device Hardware
I. R26
Height 139mm.
The maximum diameter 136mm

Figure 1 R26

II. Data Cable

Figure 2 Data Cable

	POW/COM plug which connects to R26-V2.
	DC power supply plug.
	DB9 data configuration plug.
	USBD raw data export and save plug.

III. PowerAdapter
Input: British Standard Plug.
Output: DC Plug.

Figure 3 Power Adapter

IV. Radio Antenna
Frequency: 450-470MHZ.
Dimension: 280mm.

Figure 4 Radio Antenna

V. Device Box

1.3 R26-V2 Main Body:

Figure 6 R26-V2 Main Body

: Still recording button: Press and hold for 4 seconds to turn on or off the still recording mode.

: Recorder light: red, flashes when the static recording mode is turned on, otherwise off.

: Satellite light: red, RTK Fix is flash..

:Differential light: red, flashes once per second when the radio or 4G module receives or sends data, and does not flash when there is no differential data.

: Power light: three-color light, light blue when charging, green when fully charged, red when working, and red flashing when the battery is less than 5%.

: Power button: Press and hold for 2 seconds to turn on or off (Bluetooth will also be turned on).

Figure 7 Ports

: PIN aviation plug, including power supply, COM RS232, CONFIG RS232.

: UHF radio antenna interface.

Figure 8 Bottom

Fixed Thread: Five-eighth inch thread.

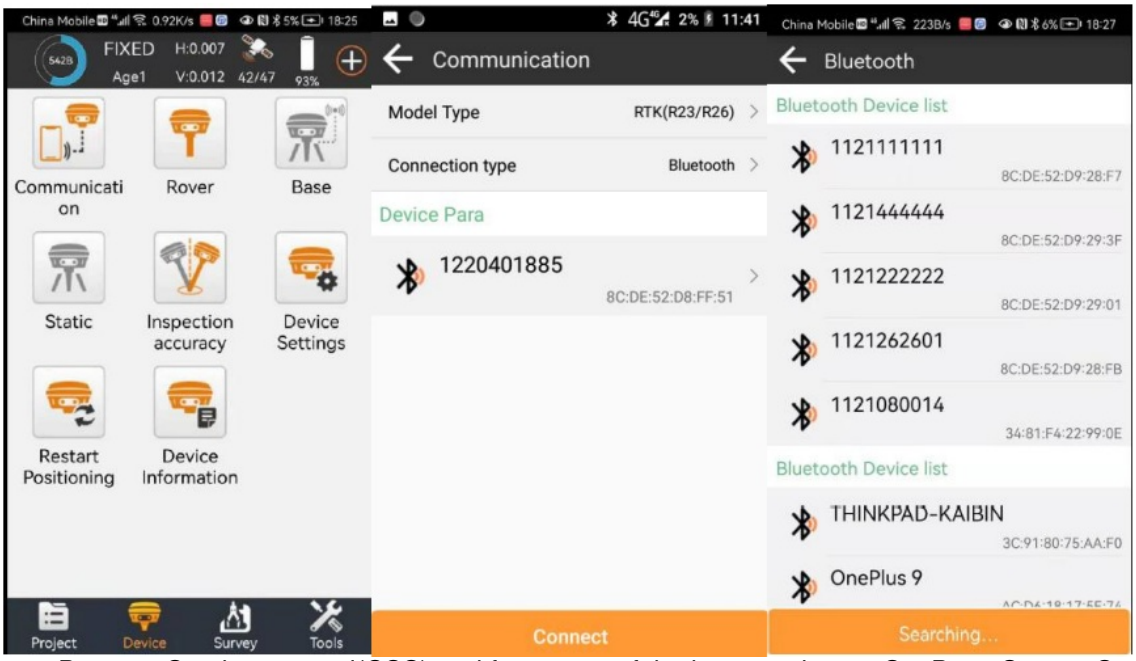
R26-V2 as base station

NOTE:

1. If you buy R26-V2 base+rover, then you will receive two R26s, one R26 is set as Base, and the other is set as Rover (For Rover settings, please refer to Section 3.1 and 3.2 in the R26-V2 rover user manual)
2. When using with other radio RTK, you need to pay attention to whether the protocol is consistent. R26-V2 supports CSS(Lora) protocol.

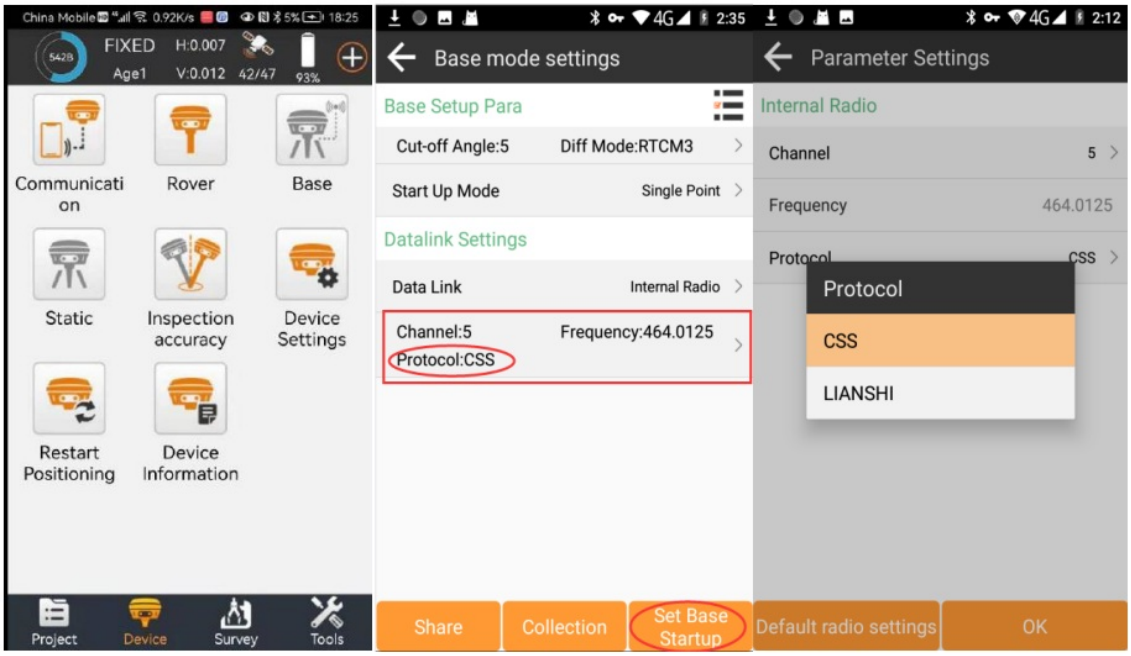
2.1 Set R26-V2 as base station

(1) Install SMAJAYU Survey software on your Android device.
Download link:
https://www.dropbox.com/sh/2xwlnanxgatdt0u/AAA0rxWEzxeWC9vPmaSkxytha?dl=0
(2) Set up and start R26-V2, open the survey software (make sure the device where the software is located has turned on Bluetooth): Device –> Communication –> Device Para –> Select your device number (same as SN) –> Connnect.



(3) Device –> Base –> Set the protocol(CSS) and frequency of the base station –> Set Base Startup See the

picture below.



Tips:
The unactivated software can only simply set the base station or mobile station, if you want to unlock all the surveying and mapping functions, please contact us to buy R26-V2 rover + handheld to get the activated software.

Static measurement Guide

3.1 Abstract

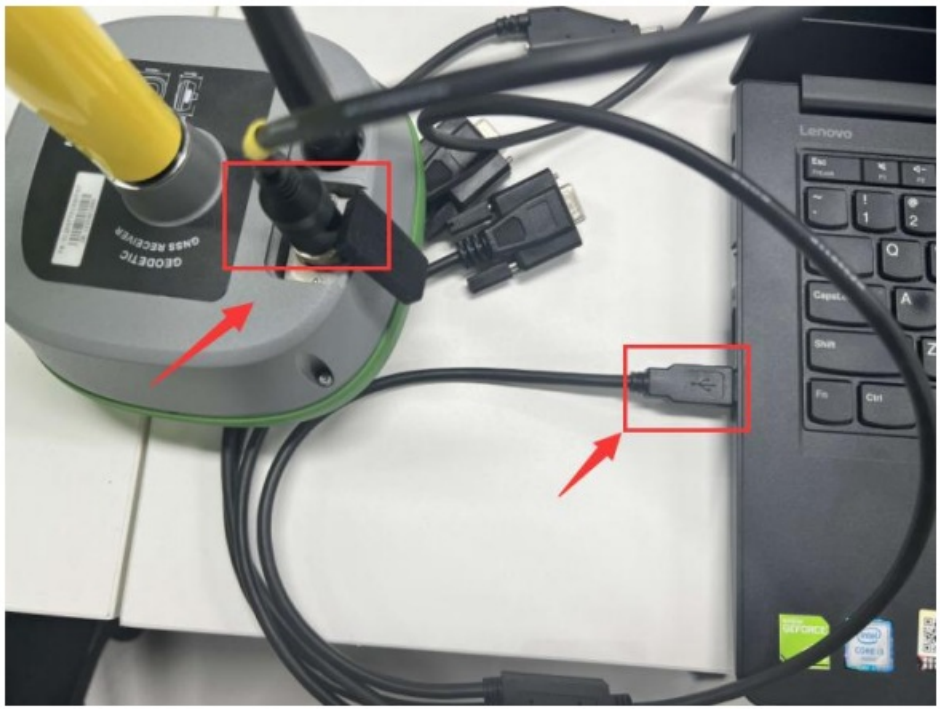
This paper mainly introduces how to switch to the static measurement mode, and how to export the static measurement data and the specific operation steps.

3.2 Static measurement steps

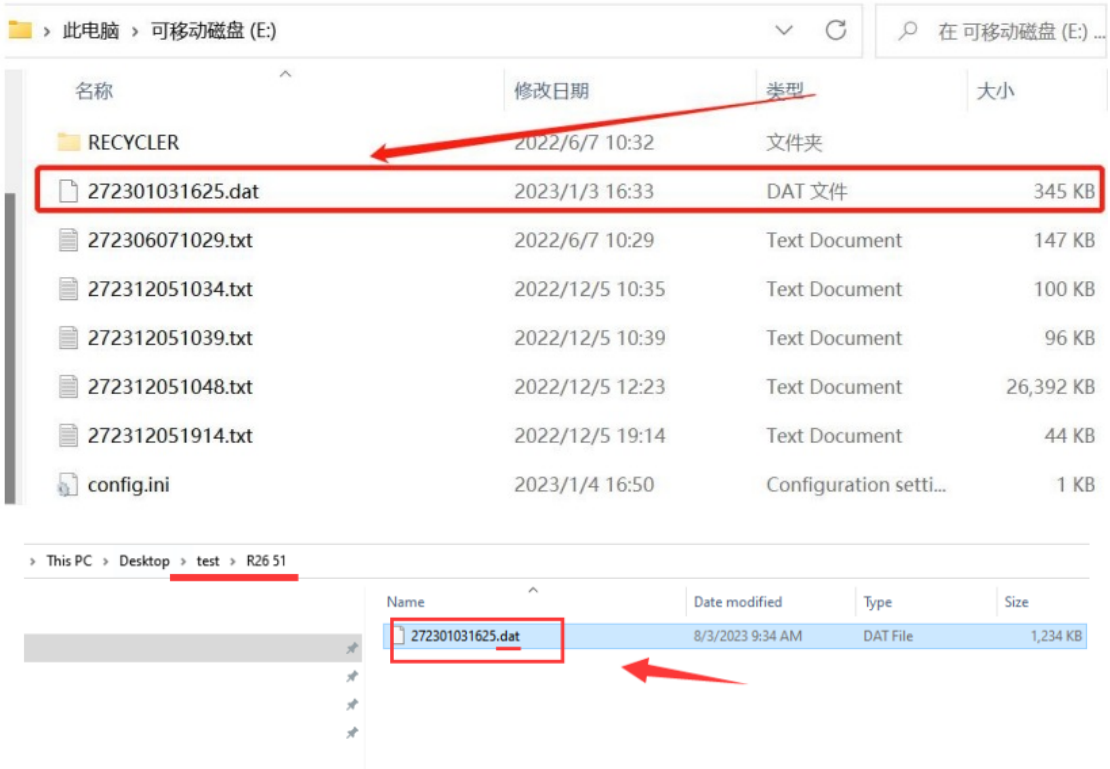
1. Set up R26-V2 at the control point
2. Record the instrument number, point name, instrument height and start time.
3. Power on, set R26-V2 to static mode (two ways)
    1. Press and hold the still recording button for 4 seconds to turn on still recording mode.
    2. Connect R26-V2 with LP80 and set it to static mode The Rocorder light will flash when the static mode is turned on, and the data will be recorded once per second.
4. Press and hold the still recording button for 4 seconds to turn off still recording mode end measurement

3.3 Static measurement data export

1. After completing the static measurement, as shown in the figure, insert the usb port of the setting line into the computer, and the nine-pin port into R26-V2.



2. The computer will pop up the disk, and you will copy the. dat measurement file in the disk to the folder you specified.



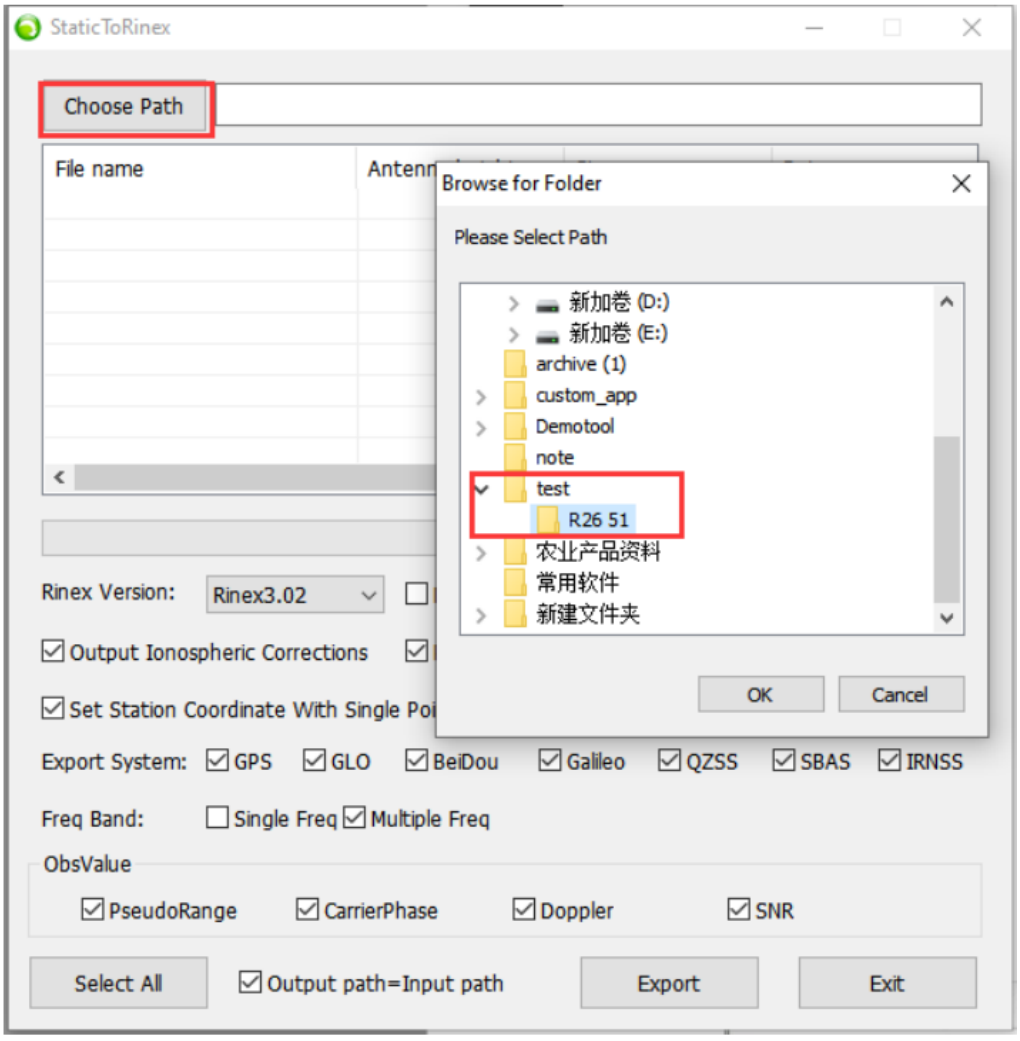
(2) Open the software and perform the following operations to convert the file.

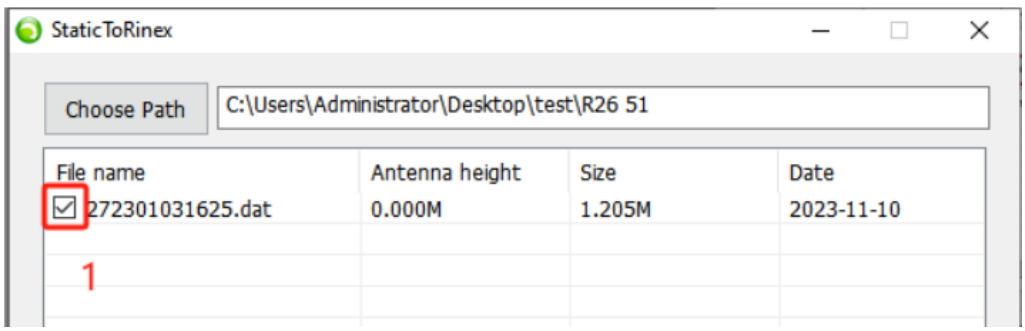
Software download link

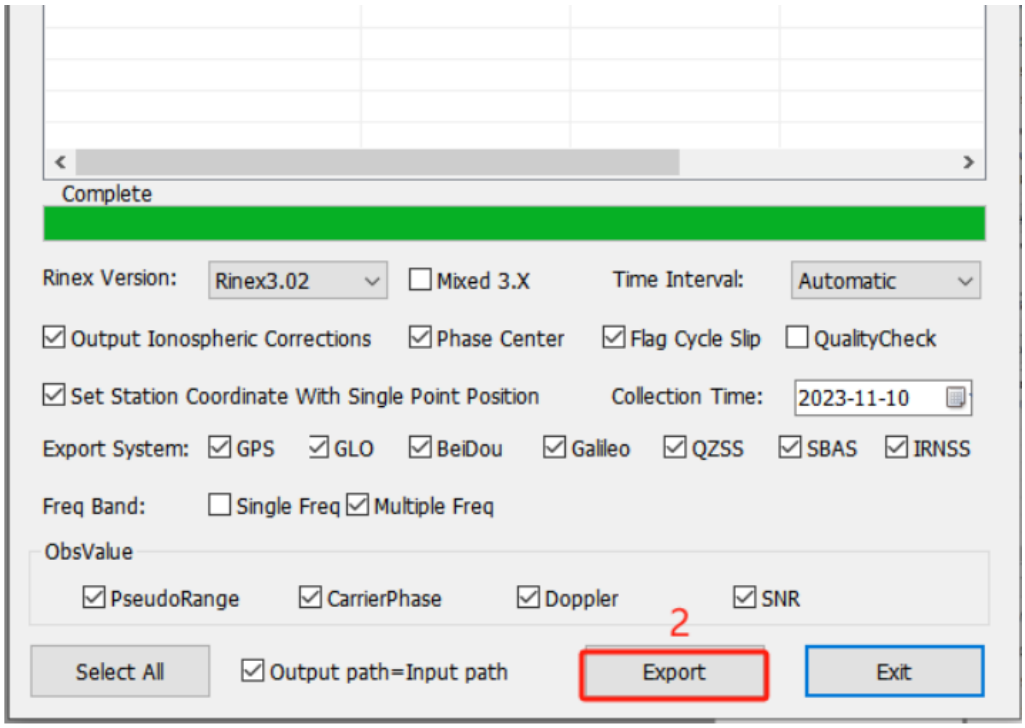
Software download link:

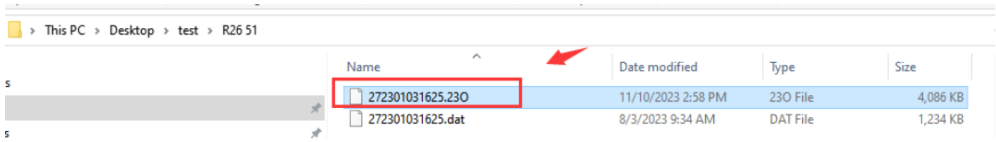
https://www.dropbox.com/sh/2xwlnanxgatdt0u/AAA0rxWEzxeWC9vPmaSkxytha?dl=0

StaticToRinex.exe









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Documents / Resources

	SMAJAYU R26-V2 Gps RTK Surveying System [pdf] User Manual R26-V2 Gps RTK Surveying System, R26-V2, Gps RTK Surveying System, Surveying System, System

References

- Autopilot system and Autopilot system for smajayu
- Dropbox - R26 - Simplify your life
- User Manual

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