CHC® i80 GNSS Receiver QuickTour with FieldGenius

(UHF Rover Mode)

1.Prerequisites

Hardware: CHC i80 Base with internal radio Kit, Controller Kit,UHF Bar Antenna (450-470 MHz), Lithium Battery, pole

Software: FieldGenius8

2.Steps to set i80 working as rover in Internal UHF mode with FieldGenius

2.1 Rover installation

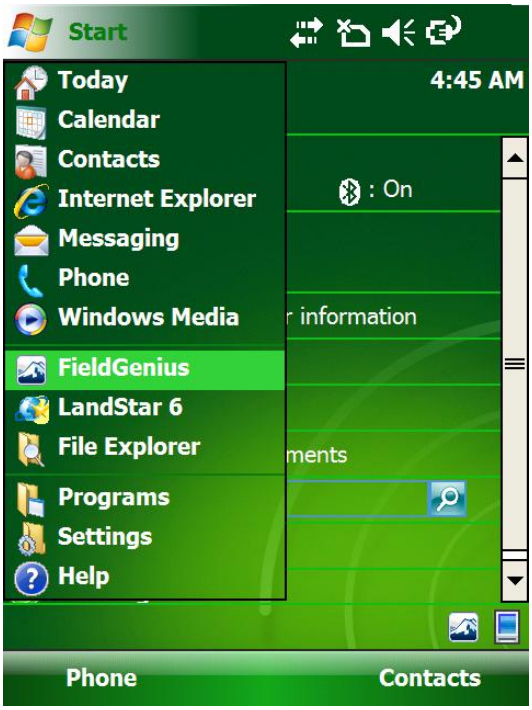
Fix the bar antenna onto the antenna port, screw the rover receiver on the pole, and put the Controller adapter in the right place like the figure.

2.2 Rover setting in SurvCE

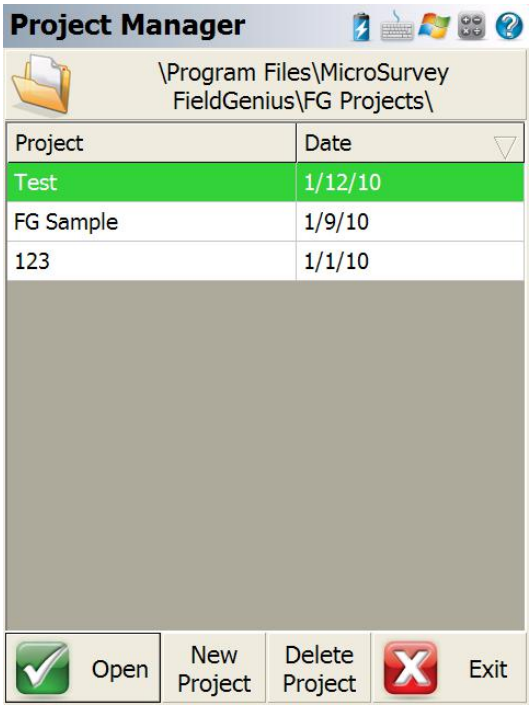
Power on the receiver

Long press the i80 power button until the green and blue LED lights are on.

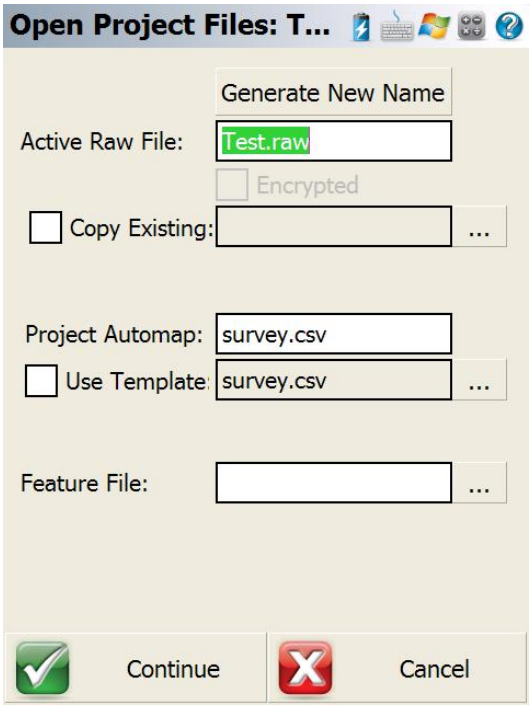
2. Click on **[start]** and then FieldGenius.



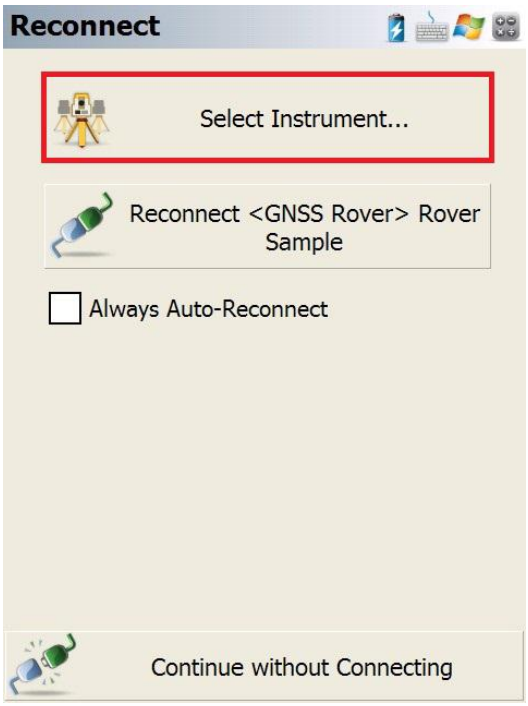
3. Click **[New Project]** to create a project or Click **[Open]** to open one exist project.



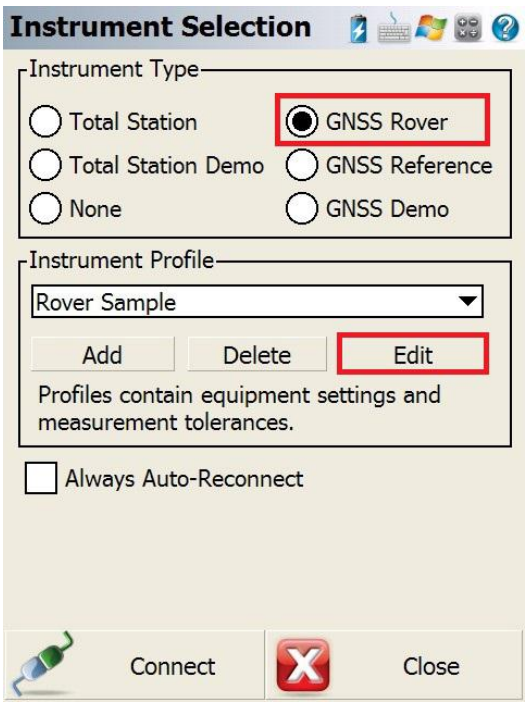
4. A project file should be selected then click **[Continue]** for next step



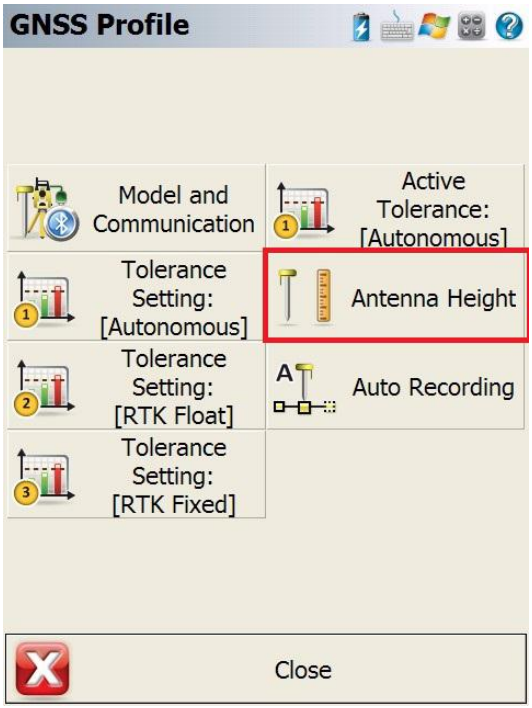
5. Click on **[Select Instrument]**

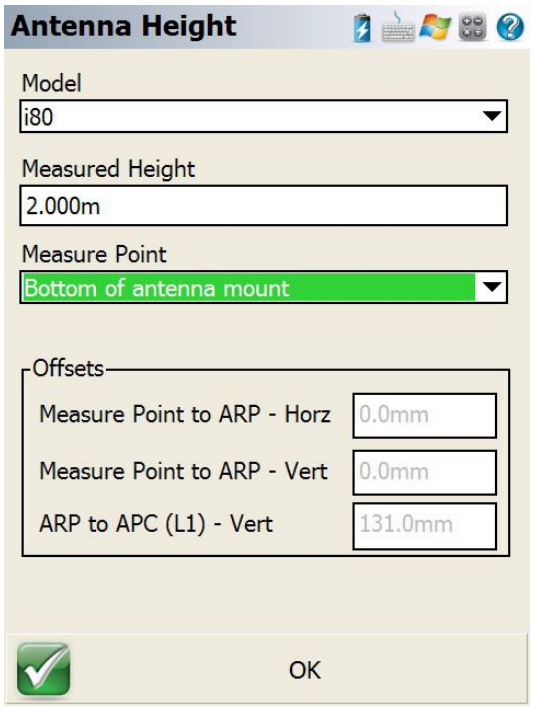


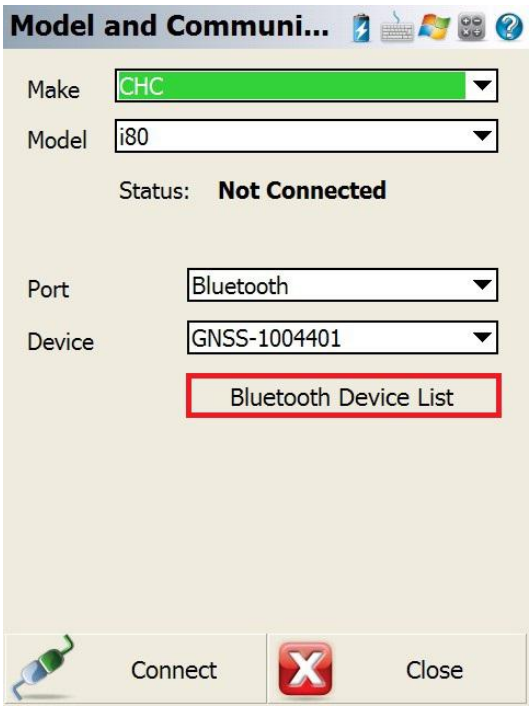
6. Select **[GNSS Rover]** option then click **[Edit]** to select device and linking method



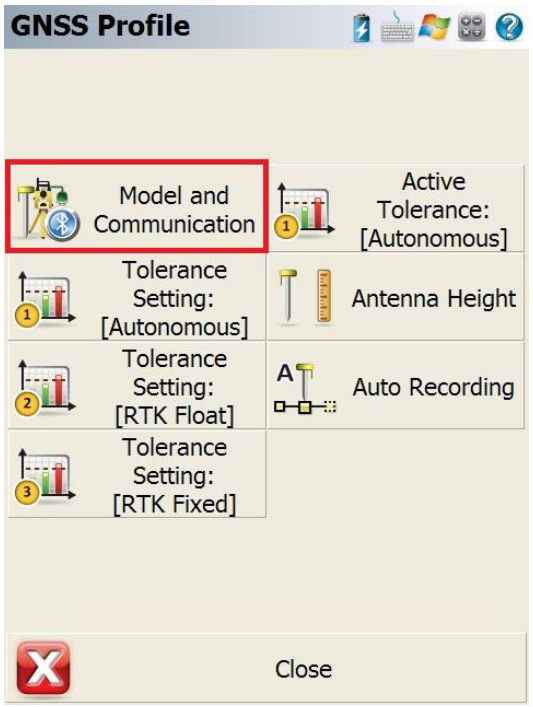
7. Click **[Antenna Height]** tab to set the antenna height of the receiver



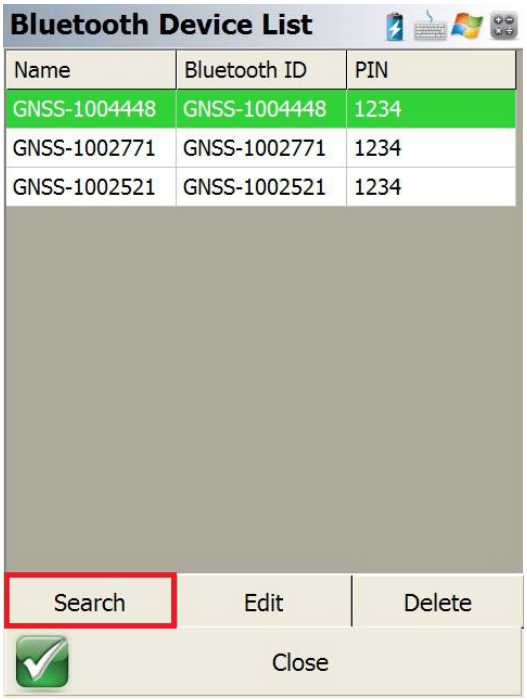




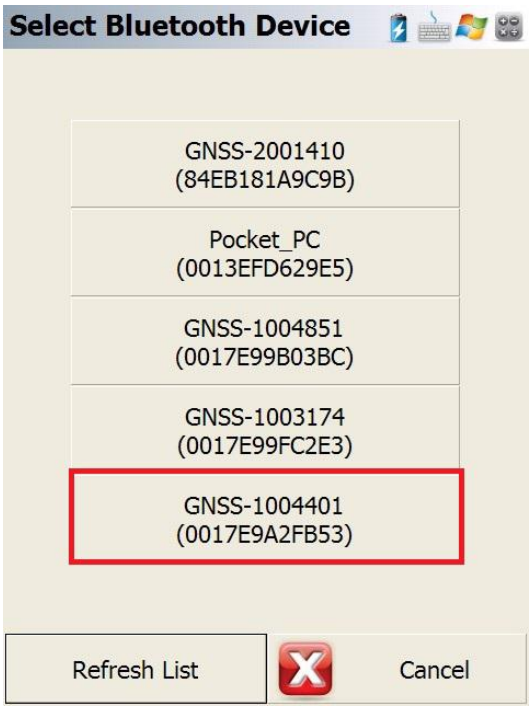
9. Click **[Model and Communication]** tab→select **Make** as **[CHC], Model** as **[i80], Port** as **[Bluetooth]** → click **[Bluetooth Device List]** to add bluetooth device



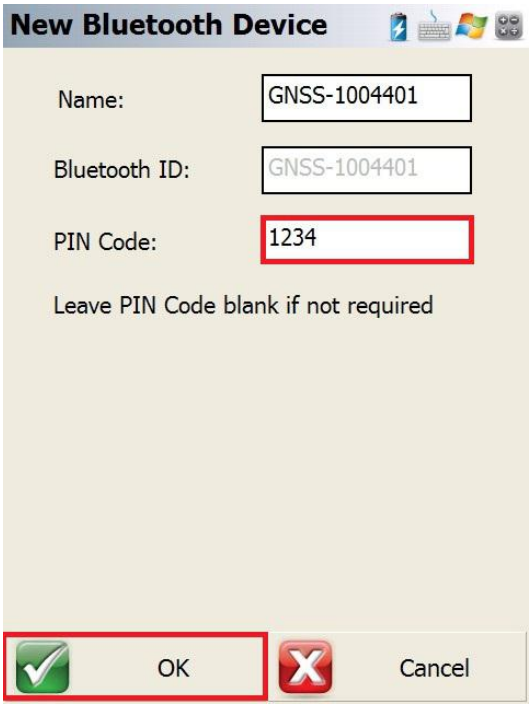
10. Click **[Search]** to search the around Bluetooth device.



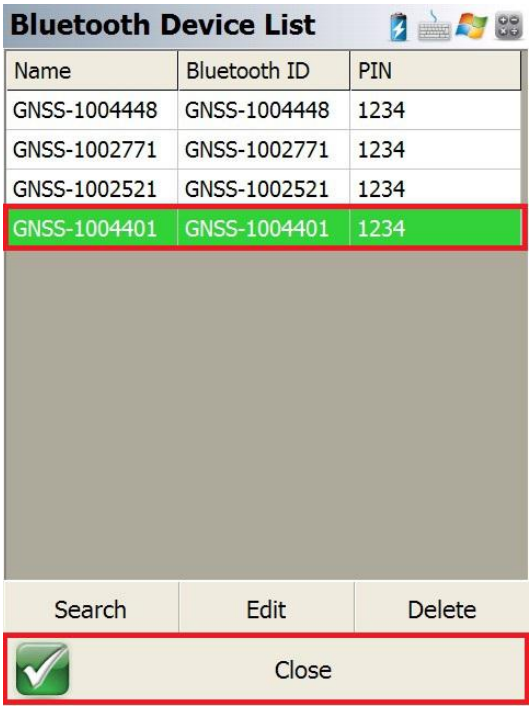
11. Click on the device that matches your device serial number, then click it



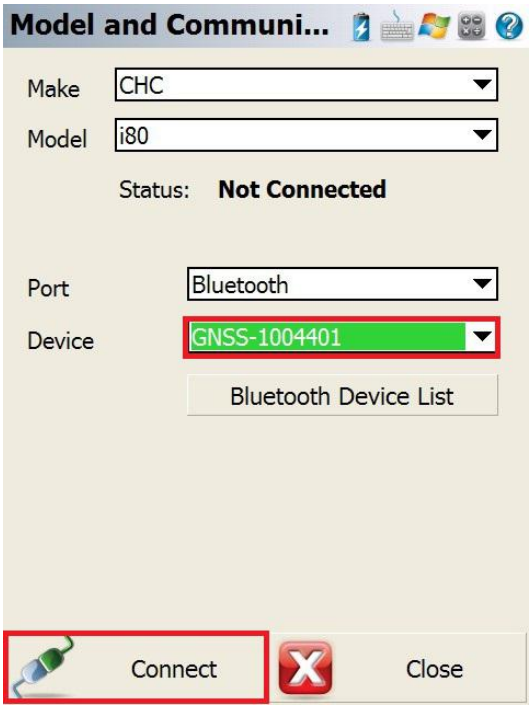
12. Type in the **PIN Code** of the bluetooth then click **[OK]** button to finish the device edit.



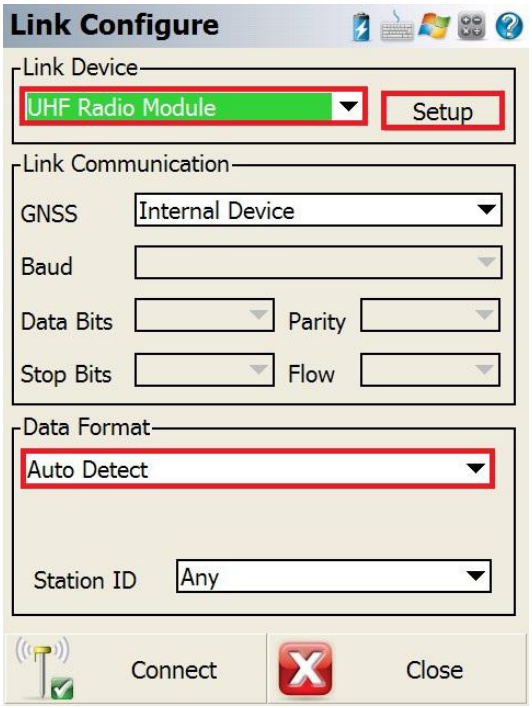
13. Then our target device can be selected in the bluetooth device list. Click [OK] button back to **[Model and Communication]** interface.



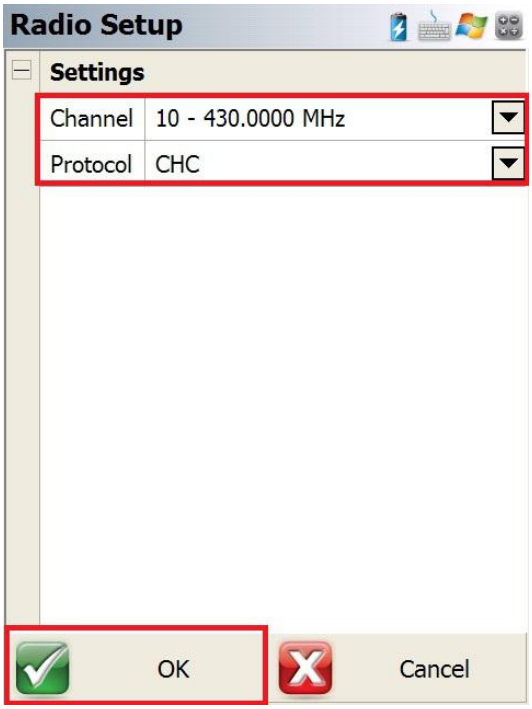
14. The target device can be selected in the drop-down box then click **[Connect]** button. The software will build the connection to your device



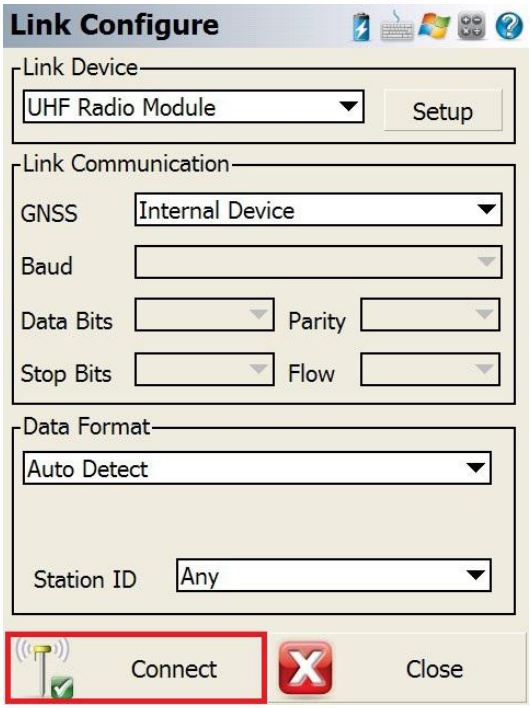
15. Select the **Link Device** as **[UHF Radio Module]** from the drop-down box, select the **Data Format** as **[Auto Detect]** then click the **[Setup]** button.



16. Select the Protocol and Frequency in the drop-down box then click [Ok] button

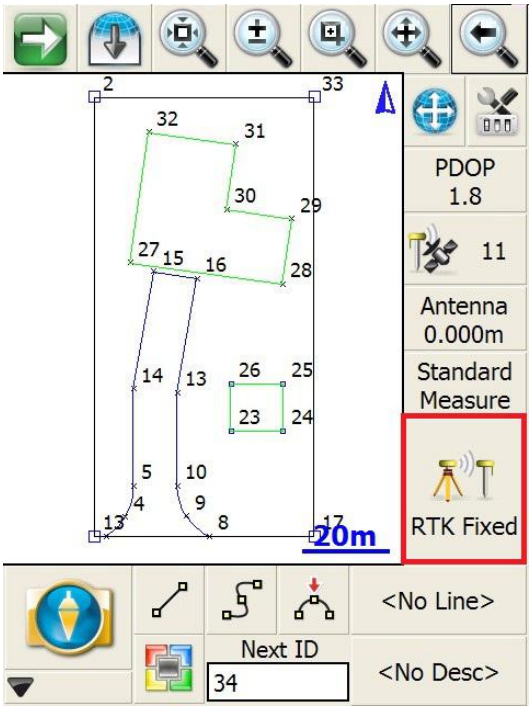


17. Please click [Connect] button to finish rover setting

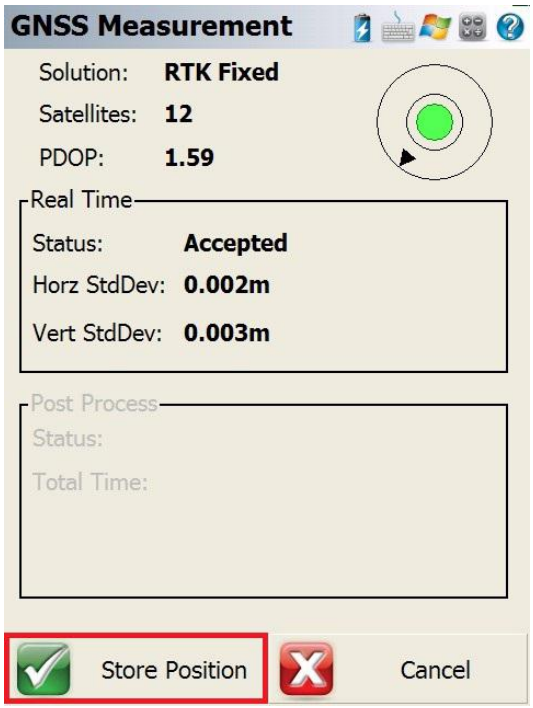


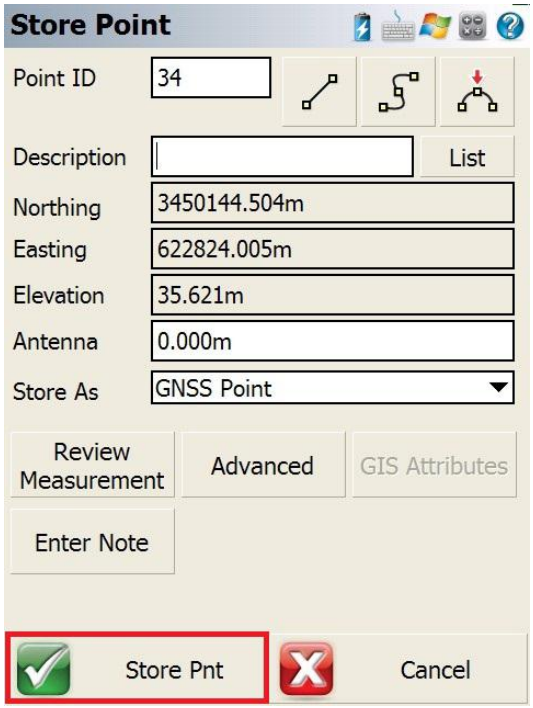
18. Then the green LED will flash and the states will become [**Autonomous]** to **[float]** then to [**fix],**which means the rover is getting the correction data from base.

Then please click the **[RTK Fixed**] to start the measurement



Only if the i80 states meets the tolerance, the measurement can be done.





19. The survey work can be done with the i80