

## Application Note

Version V1.0-20190104

# Application Note of Using David GNSS Receiver with FieldGenius Data Collection Software

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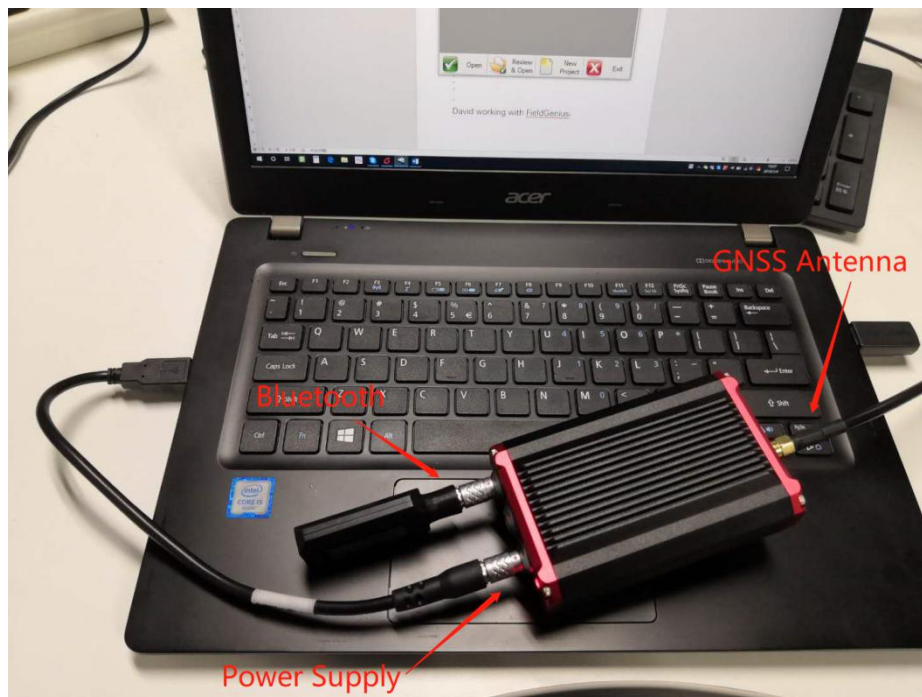


FieldGenius data collection software from MicroSurvey is a mature, professional and full featured field survey software. It is brand neutral and has been widely used by surveyors from all over the world with different brands of hardware.

In this documentation, I will explain how to connect the David GNSS Receiver with FieldGenius at the first time.

## Step 1: Setup David GNSS Receiver

We need to connect GNSS Antenna on David GNSS Receiver, connect Bluetooth and provide power to David Receiver.



## Step 2: Launch FieldGenius software

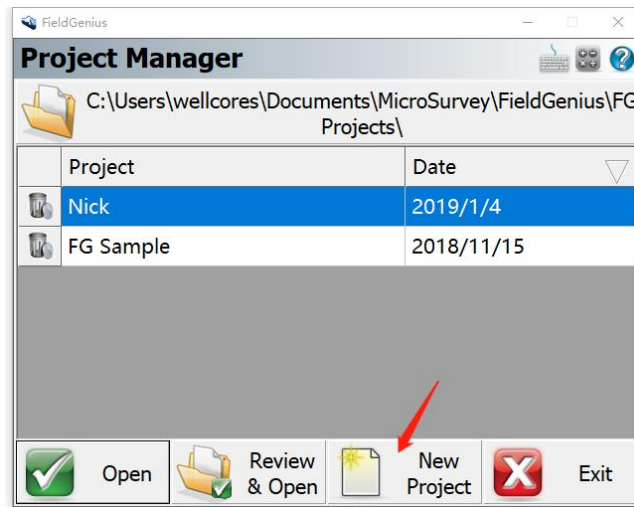
FieldGenius can support Windows Mobile Handheld, Windows CE Handheld and Windows (X86 or X64) Tablets and Desktops. You can download the latest version for demo.

<http://helpdesk.microsurvey.com/index.php?/Knowledgebase/Article/View/1544>

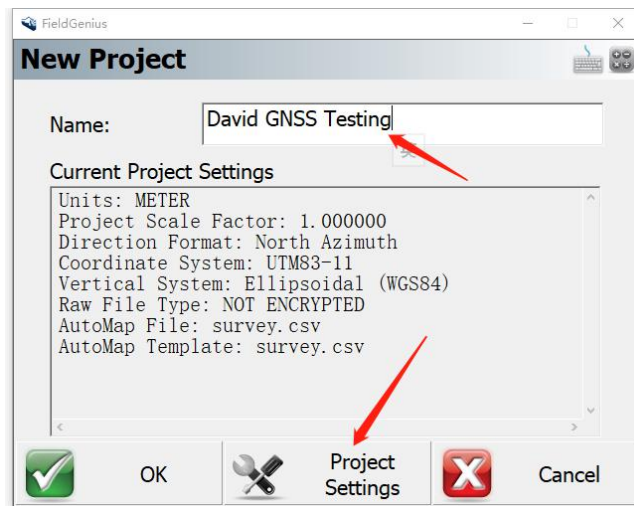
I use Windows Desktops version running on my working laptop for example. After installation and then you can launch the software. Choose Run Demo Mode to have a try. The demonstration version has all the same features as a licensed version, but is limited to 30 data points. If you would like to use FieldGenius in your surveying project, please contact Tersus Sales Team ([sales@tersus-gnss.com](mailto:sales@tersus-gnss.com)) or your sales contacts for purchase license.

### Step 3: Create a new project

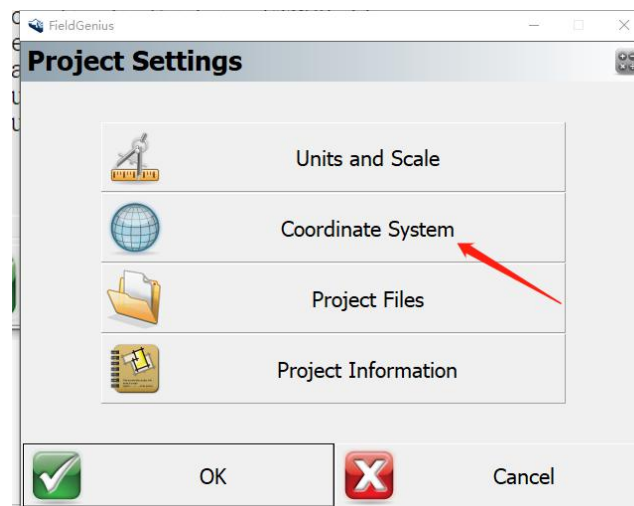
Click **New Project**.



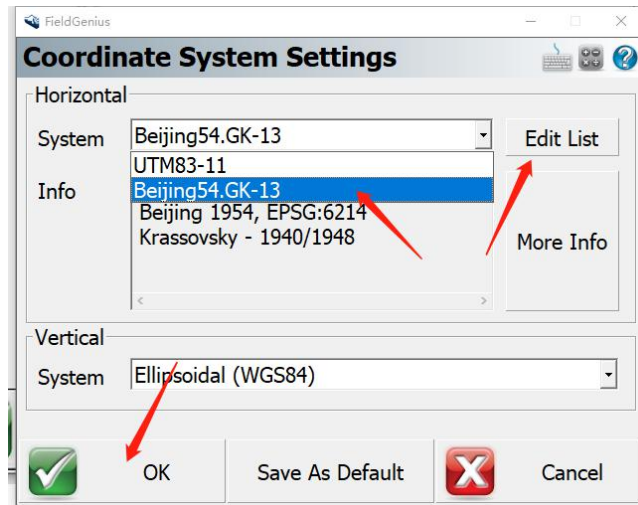
Key in your project name and then click **Project Settings**.



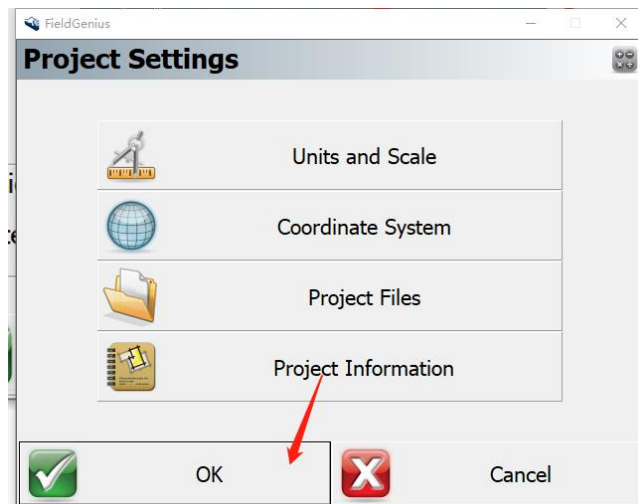
In Project Settings, you can see several settings. Normally, you need to configure the Coordinate System when you first time use this software.



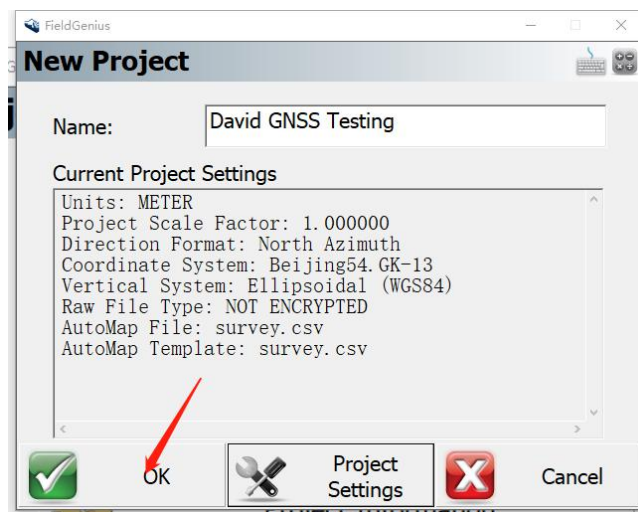
You can click **Edit List** to select pre-defined coordinate system or create your own ones. Then click **OK** for next step.



Then click **OK** to finish Project Settings



Then Click **OK** to finish project creation.

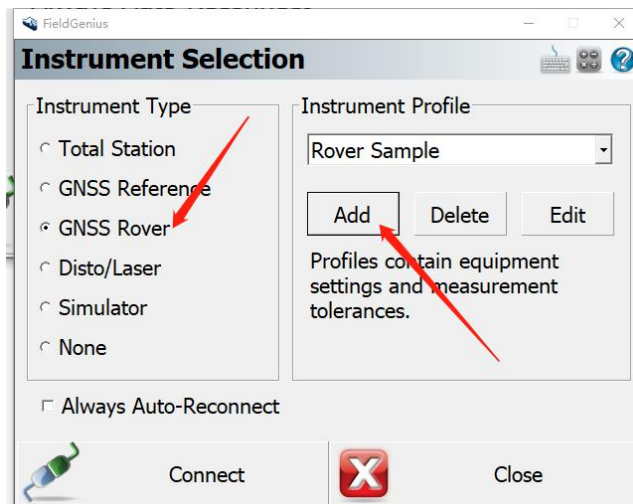


## Step 4: Connect David GNSS Receiver

Click Select Instrument



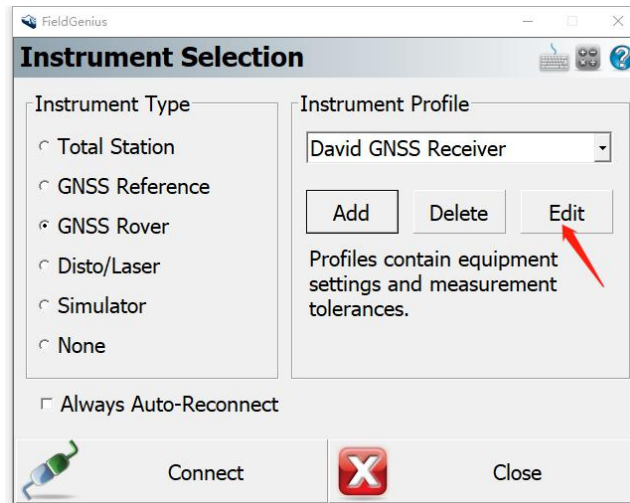
Choose GNSS Rover, click **Add** to add a new instrument profile.



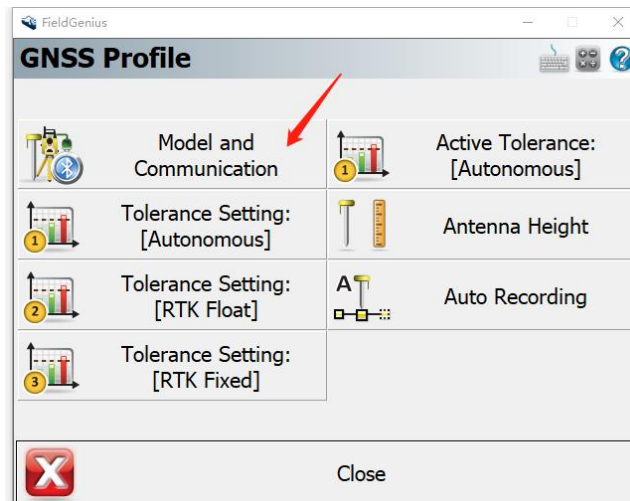
Input Profile Name, for exsample David GNSS Receiver, and click **Save**.



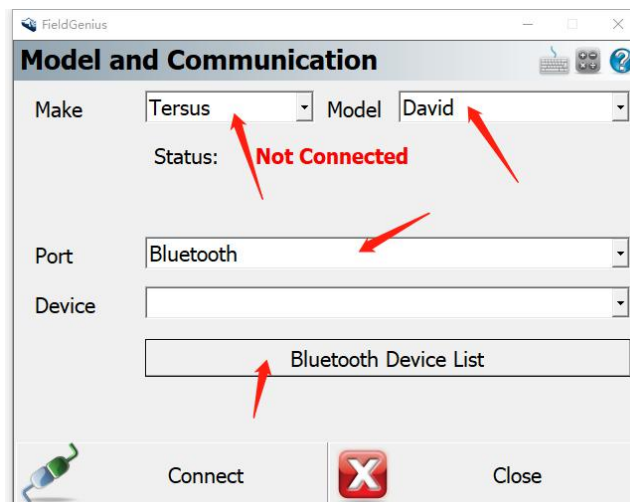
Choose David GNSS Receiver and click **Edit**



You will see a lot of settings in this page, but the first one, Model and Communication is a must you need to configure, So, click **Model and Communication**



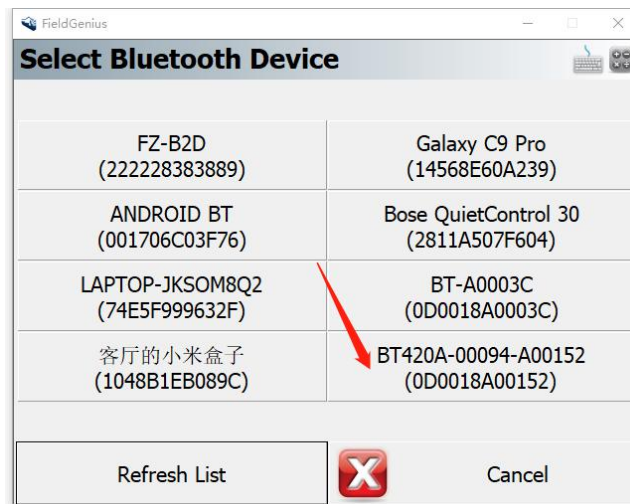
Choose Tersus in Make and David in Model. Choose Bluetooth in Port. Then click **Bluetooth Device List**.



Click Search to search Bluetooth of David Receiver.



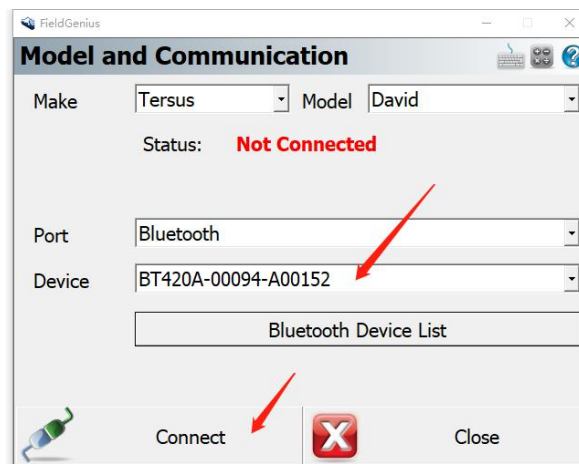
Then Choose the Bluetooth of David. It starts with BT420. Then the number 00094 are the last 5 number of SN of Bluetooth. You can find it on Bluetooth device.



PIN Code is not required, leave it blank, and click **OK**



Choose the Bluetooth device and click **Connect**



As I'm using FieldGenius on Windows 10, the Operation System will give a prompt about Bluetooth. Just click it.



Click allow to let the OS to pair the Bluetooth with David.

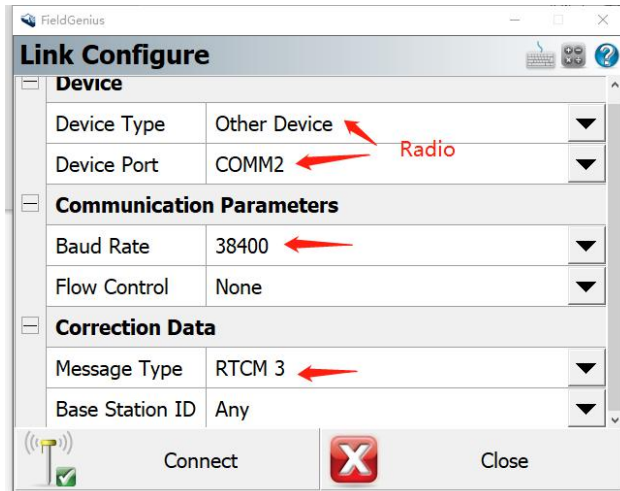


Then FieldGenius will connect with David Receiver via Bluetooth, and prompt a window for Link configure.

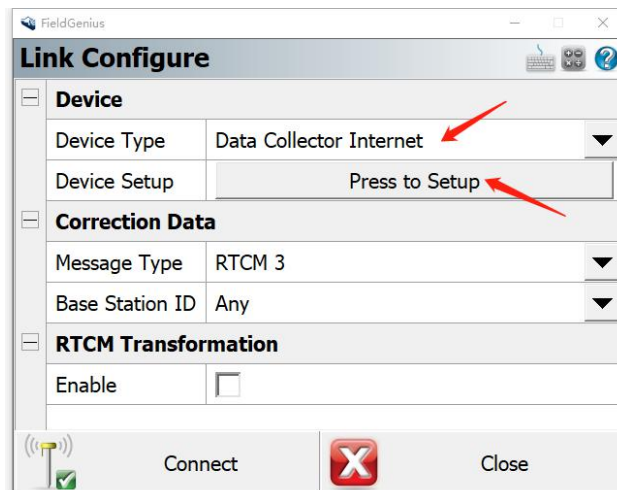


## Step 5: Configure the datalink

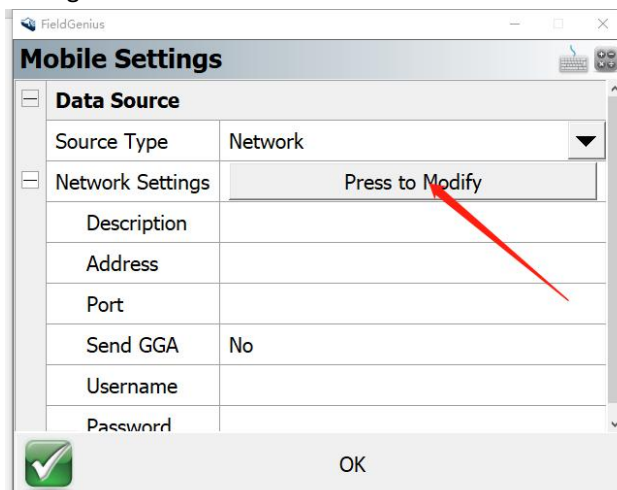
If you choose other device and COMM2, it means the David will receive correction data from COMM2. Then you can use radio mode of David. The baud rate of David 2W/460Mhz radio is 38400, so choose 38400 as Baud Rate.



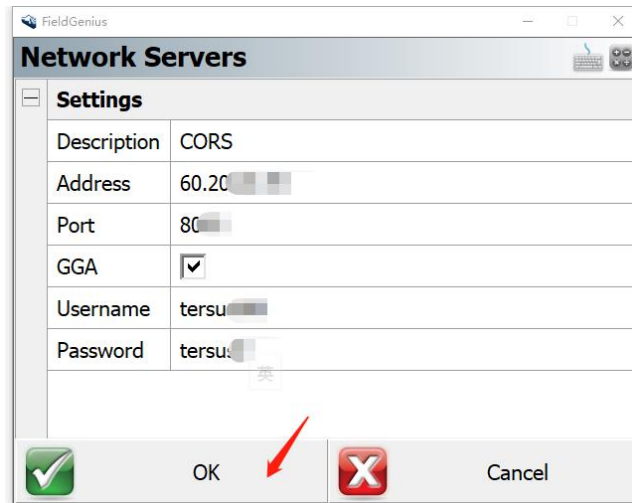
If you want to use Internet for data transfer, like working with CORS, you can choose **Data Collector Internet**



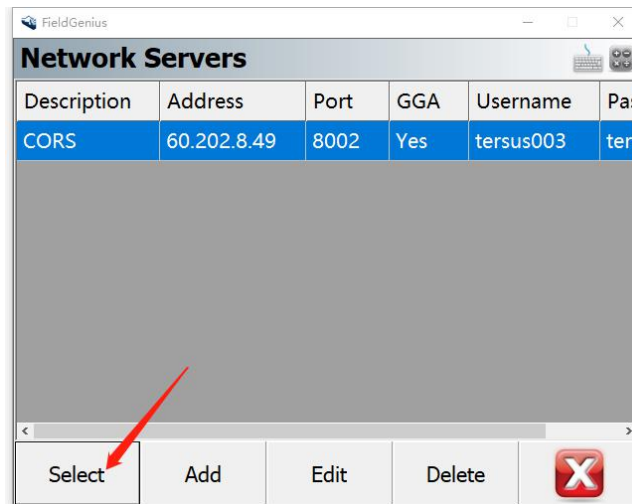
Modify the Network settings.



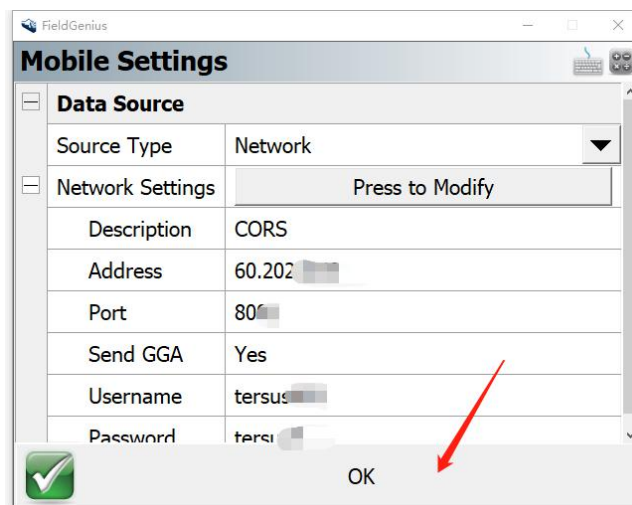
Key in the IP, Port, Username and Password of the CORS. Choose if the CORS need GGA or not.



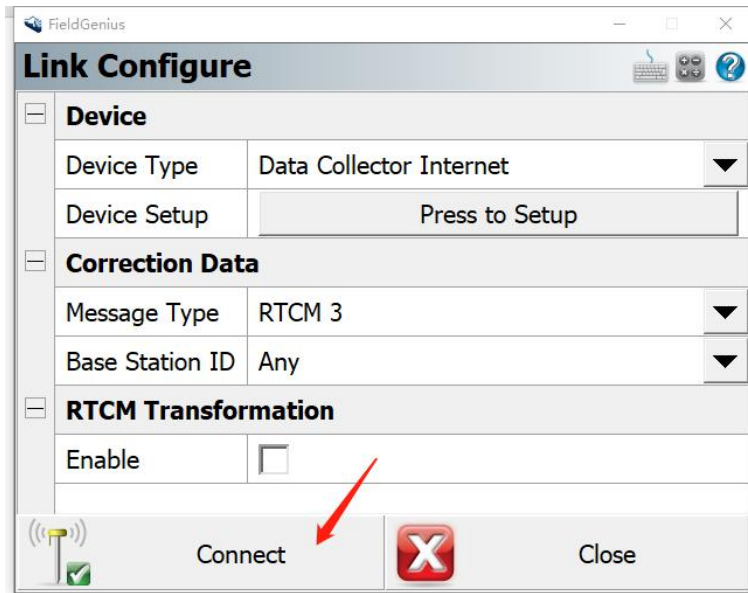
Select the Server you just key in.



Click **OK** to finish setting.

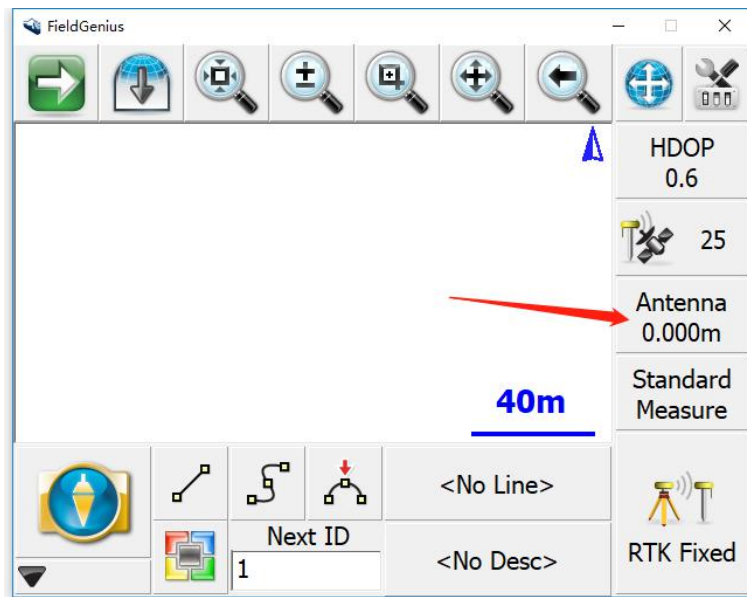


Then click **Connect** to get correction data.

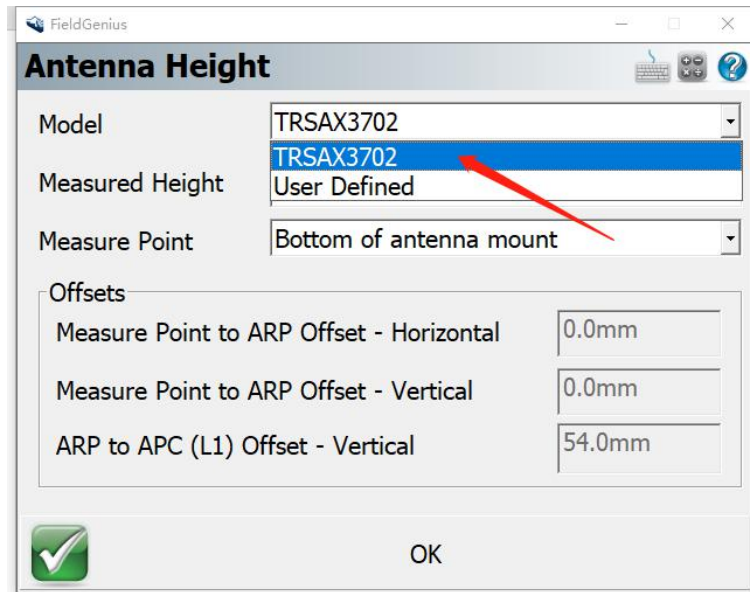


## Step 6: Go to survey

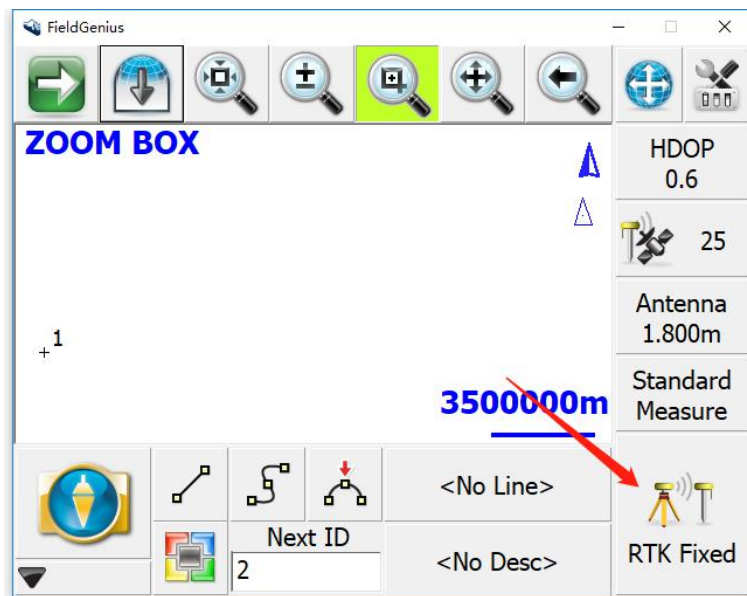
Please notice that you must set correct antenna height to get correct height reading.

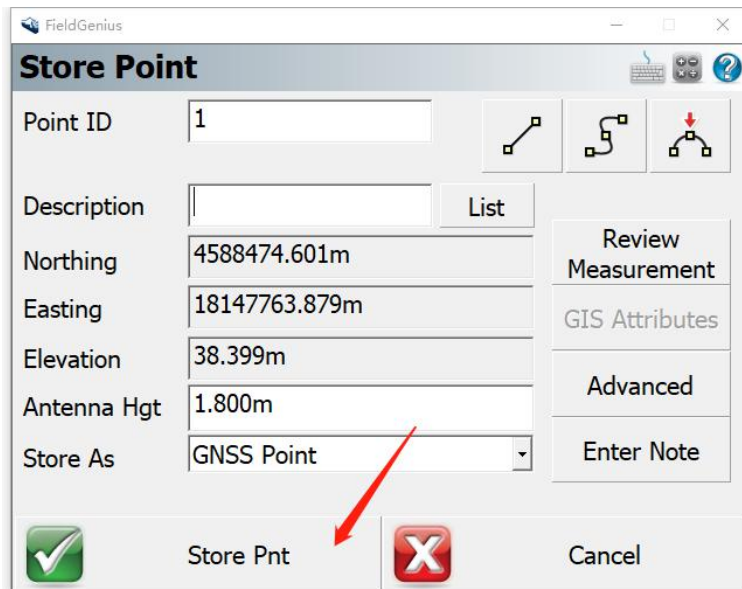
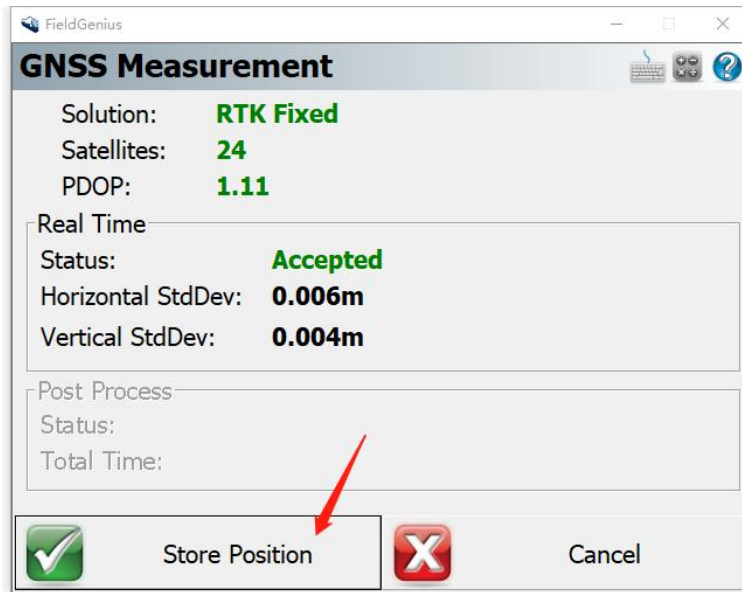


Choose TRSAX3702 if you are using Tersus AX3702 antenna. Use User Defined if you use other antennas. And then key in antenna height.



You will see it's already RTK Fixed. Just click this icon and you can store point. Now you can go to the field to be a surveying genius!





There are lots of features in FieldGenius, you can check them here

<https://www.microsurvey.com/products/fieldgenius/>

Thank you!

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