Trimble Ag Support

R750 GNSS Receiver



BASE SURVEY PROCESS GUIDE

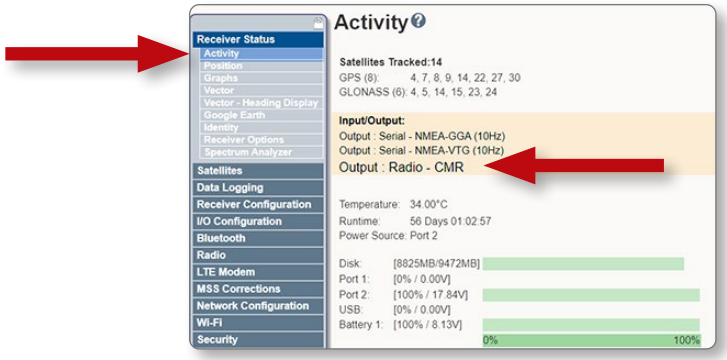
Use the R750 GNSS receiver's built-in Wi-Fi capability to access its web interface and set up a base survey with a smartphone or tablet. Follow the process below to ensure repeatability in areas where a rover is within range of two base stations: If you change the location, you will be able to select and use the corrections provided by one of the other base stations, while keeping the guidance lines in the same position.

Initial Base Survey Setup

1. Login to the R750 GNSS receivers web interface.
2. Click **Receiver Status** and select **Activity**.
3. Verify that the **Input/Output** has the correct output radio source. For example: *Output: Radio - CMR*

If the ***Output*** value is **Radio - CMR** (or ***CMRx*** or ***CMR+***), proceed to the Mobile Base (5 min) Survey or Permenant (24 hr) Survey section.

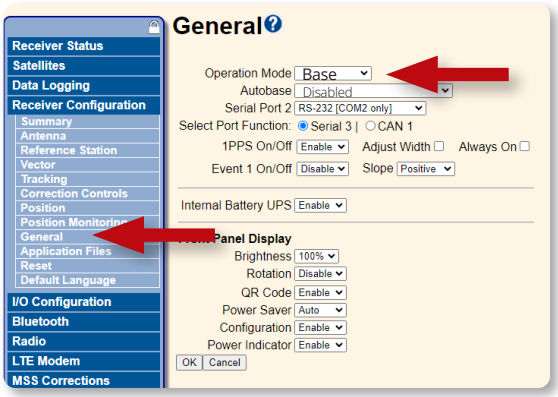
If the ***Output*** value is not correct, follow the steps below to set the correct value.

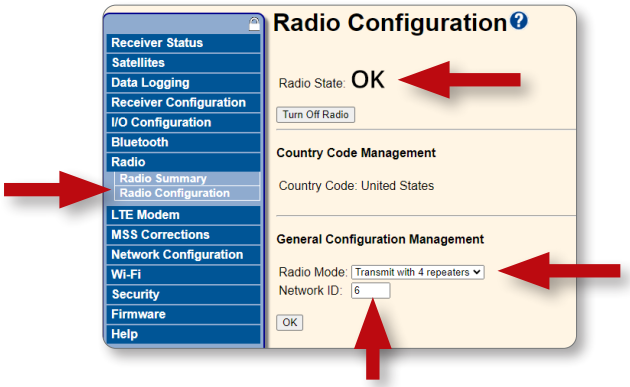


Set Correct *Output* Value

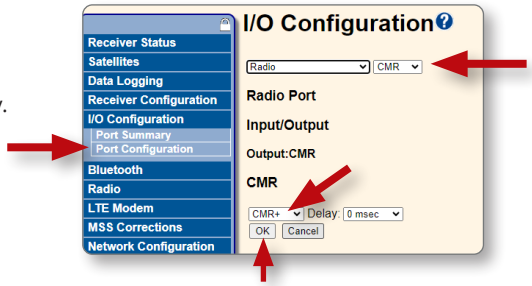
1. Click **Receiver Configuration** and select **General**. Set the *Operation Mode* to **Base**.

   Leave the ***Autobase*** selection to **Disabled** (Ref System Setup Requirements for Best Vertical GPS Performance Quick Reference Card)
2. Click **Radio** and select **Radio Configuration**.
   - Verify that the ***Radio State*** value is **OK**. This value means that the radio is turned **on** (also, the ***Turn Off Radio*** button indicates the radio is **on**).
   - Set the ***Radio Mode*** to **Transmit with 4 repeaters**.
   - Enter the ***Network ID***.





3. Click **I/O Configuration** and select **Port Configuration**.
   - Verify that the ***Radio Port*** drop-downs are set to **Radio** and **CMR**, respectively.
   - Set the ***CMR*** selection to **CMR**, **CMR+**, or **CMRx**.
   - Click **OK**.
4. Click **Receiver Status** and select **Activity**. Verify that the **Input/Output** now has the correct output radio source.



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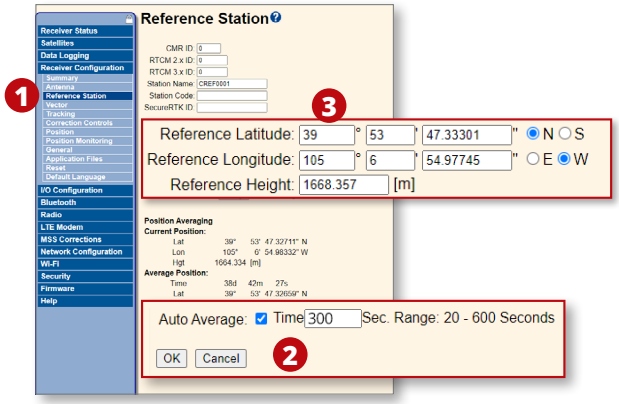
Mobile Base (5 min) Survey

After verifying the correct ***Output*** value, follow the steps below to create a **Mobile Base (5 min) Survey**:

1. Click **Receiver Configuration** and select **Reference Station**.
2. Check the **Auto Average** box and set the ***Time*** value to **300** seconds (5 minutes). Click **OK**.
3. Once complete, the ***Reference Latitude***, ***Reference Longitude***, and ***Reference Height*** values will update automatically both in the web interface and on the R750 GNSS receiver faceplate. Verify values have been updated in both locations.



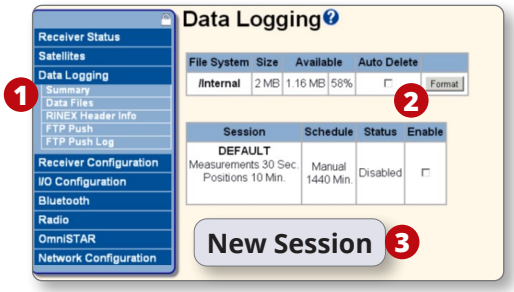


Permanent (24 hr) Survey

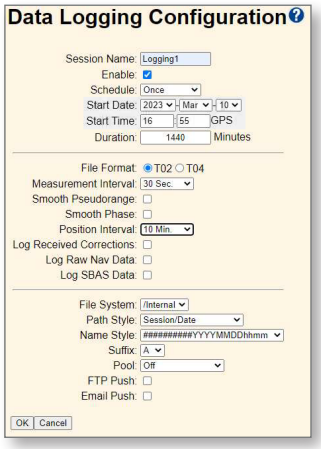
After verifying the correct ***Output*** value, follow the steps below to create a **Permanent (24 hr) Survey**:

Generate the Survey

1. Click **Data Logging** and select **Summary**.
2. Deselect **Auto Delete** (to preserve the survey data file).
3. Click **New Session** (or edit a previous session).

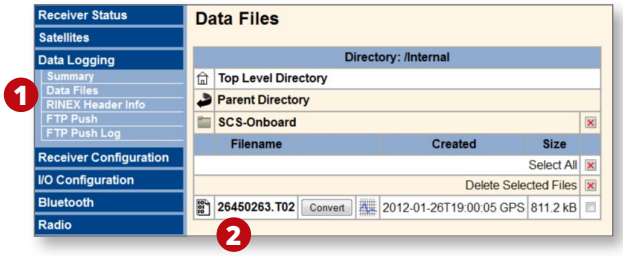


4. On ***Data Logging Configuration***, enter these settings and click **OK**:
   - Session Name: [survey file name]
   - Enable: check
   - Schedule: Once
   - Duration: 1440
   - File Format: T02
   - Measurement interval: 30 Sec.
   - Position interval: 10 Min.



Save the Survey File

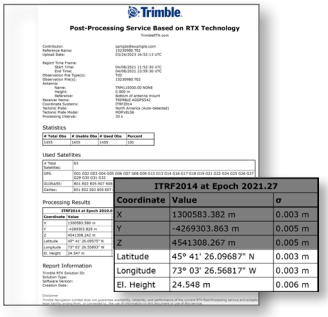
1. After 24 hours have elapsed, click **Data Logging** and select **Data Files**.
2. Click the **T02 file** to download and save the file.

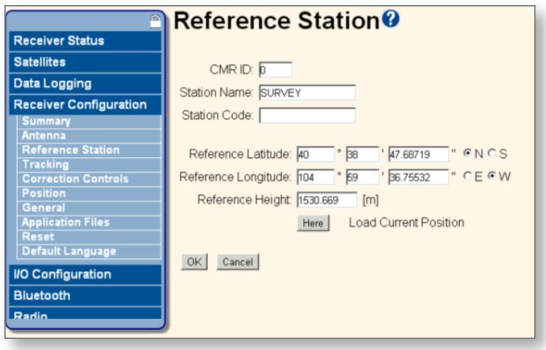


Update and Save R750 Receiver Position

1. Upload the survey file to https://trimblertx.com for post processing.

   A report file will be emailed to you, which includes the reference details to enter.
2. Click **Receiver Configuration** and select **Reference Station**.
3. Enter post-processed values for ***Reference Latitude, Reference Longitude,*** and ***Reference Height***. Click **OK**.





Reference Latitude, Reference Longitude, and ***Reference Height*** can also be entered on the R750 faceplate.