

TERRASync SOFTWARE QUICK START GUIDE

This guide provides an overview of collecting GPS data using the Trimble® TerraSync™ software.

Before using the software, Trimble recommends that you complete the tutorial provided in the TerraSync Software Getting Started Guide which can be found on the TerraSync CD.

For more information about any screen in the TerraSync software, tap  and then select **Help**. The *TerraSync Help* topic for that screen appears.



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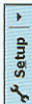
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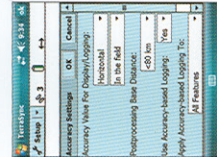
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3. Configure your required accuracy settings

1. Select **Setup** from the Section list.
2. Tap **Logging Settings**.
3. Tap the Setup button  beside the *Accuracy Settings* field.
4. From the *Accuracy Value for Display/Logging* fields, select the parameters that will be used to determine the estimated accuracy:
 - Select whether to display the horizontal or the vertical accuracy of the current GPS position.
 - Select *In the field* to use the current estimated accuracy, or select *Postprocessed* to use the predicted accuracy once the field data has been postprocessed.
5. If you selected *Postprocessed*, select the approximate distance to the base station from the *Postprocessing Base Distance* field.
6. Select **Yes** from the *Use Accuracy-based Logging* field.
7. Select the feature types that your accuracy requirements will apply to from the *Apply Accuracy-based Logging To* list.
8. Select the estimated accuracy that is required before GPS positions are logged from the *Required Accuracy* drop-down list.
9. Tap **OK**.



1. Start the TerraSync software

To start the TerraSync software, tap  and then select *Programs/TerraSync*.

By default, the TerraSync software displays the Skyplot screen, which shows the status of the connected GPS receiver.

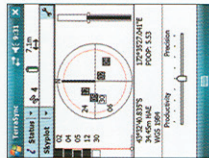
Selecting sections

The TerraSync software is arranged in the following five sections:

- Map
- Data
- Navigation
- Status
- Setup

One of these sections is always active and visible. The Section list button in the top left corner of the TerraSync software screen shows the section that is currently active. To switch to a different section, tap the Section list button and then select the section you want from the drop-down list.

If the current section has subsections, the Subsection list button appears below the Section list button. Use the Subsection list button to switch to a different subsection of the current section.



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4. Configure GPS and data logging settings

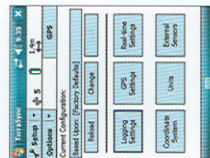
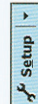
Configure additional settings, if required, in the Setup section.

To configure:

- a source of real-time differential corrections, tap **Real-time Settings**.
- data logging settings, tap **Logging Settings**.
- settings for the GPS receiver, tap **GPS Settings**.

Tip – You can also quickly and easily configure settings for the GPS receiver using the GPS slider bar at the bottom of the Skyplot screen.

For more information about any of these settings screens, tap  and then select **Help**.

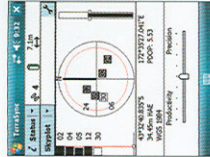


2. Connect to a GPS receiver

- If the field computer running the TerraSync software has an integrated GPS receiver, the software automatically connects to the GPS receiver when you start the software.
- If you are using a separate GPS receiver:
 - a. Use either a cable or Bluetooth® wireless technology to connect the receiver to the field computer running the TerraSync software.
 - b. In the TerraSync software, select **Setup** from the Section list and then tap **GPS Settings**.
 - c. Select the COM port that the receiver is connected to from the **GPS Receiver Port** drop-down list and then tap **OK**.
 - d. In the **Setup** section, tap **GPS** to connect the TerraSync software to the receiver.

The Skyplot screen shows the status of the connected GPS receiver.

Note – GPS positions may not always be available, particularly in or near buildings, in vehicles, or under tree canopy.

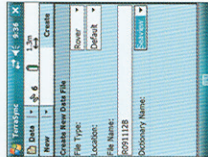
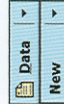


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5. Create a new data file

1. Select **Data** from the Section list.
 2. Select **New** from the Subsection list.
 3. Use the default file location or select a different location from the *Location* drop down list.
 4. Use the default file name or enter a new file name in the *File Name* field.
 5. Select the data dictionary from the *Dictionary Name* drop-down list.
- Tip** – The data dictionary defines the features that you will be able to collect.
6. Tap **Create**. The *Confirm Antenna Height* dialog appears.
7. Make any required changes and then tap **OK**.

The *Collect Features* screen appears, showing a list of all the features in the data dictionary.



6. Create a point feature using Log Now

- 1. If the Collect Features screen is not open:
 - a. Select Data from the Section list.
 - b. Select Collect from the Subsection list.
- 2. In the Choose Feature list, tap the point feature you want to collect.
- 3. Tap Create.
The attribute entry form for the feature appears.
Tip – By default, the TerraSync software begins logging features as soon as you open a feature. The logging icon 6 in the status bar shows how many positions have been logged for the point feature.
- 4. Remain stationary while you fill out the attributes for the point feature in the attribute entry form.
- 5. Once you finish entering the attributes, tap OK to close the feature.



Updating data

- 1. Select Data from the Section list.
- 2. Select Existing File from the Subsection list.
- 3. Tap the file that you want to use and then tap Open.
The Confirm Antenna Height dialog appears.
- 4. Make any required changes and then tap OK.
- 5. In the Update Features screen, tap the feature you want to update.
- 6. Tap Options, select Set Nav Target and then select the option required.
The target icon appears beside the selected feature.
- 7. Select Navigation from the Section list.
- 8. Select Navigate from the Subsection list.
- 9. Use the Direction Dial screen and the Close-up screen to navigate to the target.
- 10. When you reach the target, return to the Update Features screen in the Data section.
- 11. If it is not already selected, tap the feature to update and then tap Begin. The attribute entry form for the feature appears.
- 12. Fill out the attributes and then tap OK to update the feature.



7. Create a line or area feature using Log Later

- 1. If the Collect Features screen is not open:
 - a. Select Data from the Section list.
 - b. Select Collect from the Subsection list.
- 2. In the Choose Feature list, tap the line or area feature you want to collect.
- 3. Tap Options and then select Log Later.
- 4. Tap Create. The attribute entry form for the feature appears.
Tip – The pause icon || in the status bar shows that logging is paused.
- 5. Fill out the attributes for the line feature in the attribute entry form.
- 6. Move to the start of the feature and then tap Log.
Tip – The number on the logging icon 9 in the status bar increments as each position is recorded.
- 7. Continue moving along the line or around the area feature.
- 8. When you reach the end of the feature, tap OK to close the feature.
Note – You can also log line and area features using Log Now. You can then fill out the attributes for the feature as you travel along the feature.



Working from the map

- Select Map from the Section list to view a map of features you have collected or are currently collecting.
- To view the map at different scales, tap the Zoom In or Zoom Out button on the command bar.
- To create and end features, either use the Create 6 and End 7 buttons in the Map section, or return to the Data section.
- To select a navigation start or target from the map:
- 1. Tap the feature on the map.
 - 2. Tap Options.
 - 3. Select Set Nav Start or Set Nav Target and then set the start or target option required.
- If you have TerraSync Professional edition software, you can select a background file to be used as the Map background. To do this:
- 1. Tap Options and then select Background Files.
 - 2. Specify the location and type of file(s) you want to use and then tap the file(s) you want to use in the Files list.
 - 3. Tap OK to return to the map.



8. End the data collection session

- 1. If the Collect Features screen is not open:
 - a. Select Data from the Section list.
 - b. Select Collect from the Subsection list.
- 2. Tap Close.
- 3. Tap Yes to close the file.
- 4. Tap the Close button X in the top right corner to close the TerraSync software.
- 5. Tap Yes to close the software.



Common status indicators

Status indicators are displayed in the status bar at the top of the TerraSync software screen.

Note – A flashing icon indicates a problem. Tap the icon to find out more.

Icon	Description
	The battery icons may show two different levels, depending on whether a separate GPS receiver, with its own battery, is connected.
	Shows that the TerraSync software is connecting to the GPS receiver. Flashes when it cannot connect.
	Shows the number of satellites being used to calculate the position.
	Shows the estimated accuracy of the current feature. Flashes if the feature is not being logged because it does not meet the required accuracy.
	Shows the number of positions logged for the current line or area feature.
	Shows the number of positions logged for the current averaged vertex or point feature.
	Flashes to indicate logging is paused.