

GETTING STARTED

1. Power the unit on and wait for the desktop screen to appear.
2. Use the stylus to tap **GPS** in the lower right hand corner. This will bring up TerraSync, which is where all GPS functions will be performed.
3. When TerraSync loads, a **Skyplot** screen will appear showing the PRN numbers of the satellites in view.
4. At the top left of the screen, tap **Status** and select **Setup**. From this screen, each setup procedure below can be conducted.

COORDINATE SYSTEM

1. From the **Setup** screen, tap **Coordinate System**.
2. Select, from the **System** drop down menu, the required projected or geographic coordinate system.
3. Select, from the **Zone** drop down menu, the required zone and, from the **Datum** drop down menu, the specified datum. Typically for data collection in Alabama, UTM, Zone 16 North, and WGS 1984 are recommended respectively.
4. Set the **Altitude Reference** and **Altitude Units** according to specifications.
5. Select the appropriate **Coordinate Units** and tap **OK**. *Please do not tamper with other settings unless instructed to do so.*

UNITS

In order to change the display units:

1. Tap the **Units** icon on the **Setup** screen. From these options, units for **Distance**, **Area**, **Velocity**, and **Angles** can be changed to the specific parameters.
2. Formatting for **Longitude and Latitude** can be changed here as well, tap **OK**. *Please do not tamper with other settings unless instructed to do so.*

LOGGING SETTINGS

1. Select Logging Settings from the Setup screen to change Antenna Settings, Carrier versus Code data collection, Velocity Logging, Logging Interval and Logging Style.
2. Enter the specific **Filename Prefix** and **Waypoint Filename Prefix** if different from default.
3. To change **Antenna Settings** tap the wrench next to **Antenna Height**. Once there, the antenna height can be changed as well as the type.
4. If an external antenna is used, select the type from the drop down menu, then select how the height of the antenna will be measured, tap **OK**. *Please do not tamper with other settings unless instructed to do so.*

GPS SETTINGS

This menu will allow the user to select **GPS Receiver Port**, and automatically or manually set GPS data collection parameters.

1. From the **Setup** screen, tap **GPS Settings**.
2. To automatically set GPS settings, make sure there is a check in the box next to **Productivity/Precision**. The pointer can be moved to adjust productivity versus precision. Moving the pointer toward **Productivity** will allow the user to collect data in harsher environments with obstructions while moving the pointer toward **Precision** will allow for more

precise data, tap **OK** when done. *Please do not tamper with other settings unless instructed to do so.*

If manually setting data collection parameters is desired:

1. Uncheck the box next to **Productivity/Precision**.
2. Enter the specified **DOP Type, Max DOP, Max SNR**, and **Min Elevation**, tap **OK**. *Please do not tamper with other settings unless instructed to do so.*

REAL-TIME SETTINGS

If the user desires to collect DGPS data:

1. Select **Real-Time Settings** from the **Setup** screen.
2. In the **Choice 1** drop down menu, select **Integrated SBAS**.
3. In the **Choice 2** drop down menu select **Use Uncorrected GPS**. Otherwise, select **Use Uncorrected GPS** in the **Choice 1** drop down menu. *Please do not tamper with other settings unless instructed to do so.*

LASER SETUP

To use the laser simultaneously with the GPS unit:

1. Open or create a data file.
2. Power on the laser.
3. Navigate to the **Setup** screen.
4. Select External Sensors.
5. Check the box next to **Laser** and tap **OK**. *Please do not tamper with other settings unless instructed to do so.*