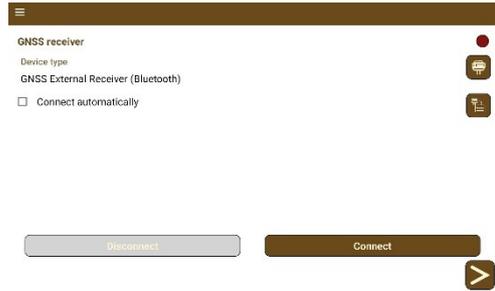
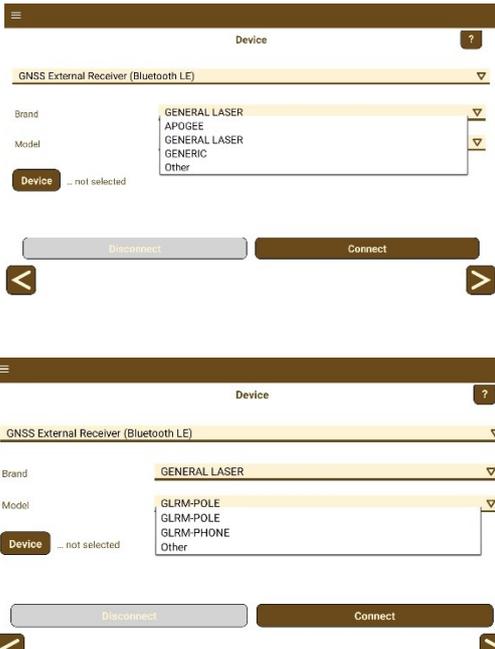
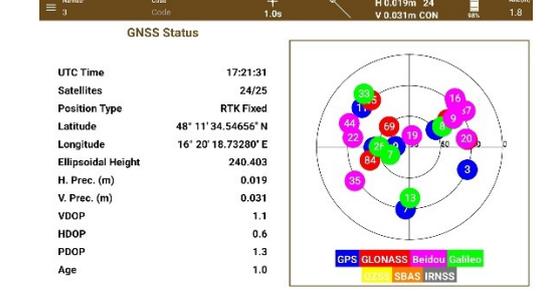


Using the GLRM Receiver with TcpGPS

The TcpGPS app provides a comprehensive solution for GNSS-based surveying and mapping. It offers global coverage with base maps and projections, allowing seamless integration of web map services or CAD/GIS files as user layers. Designed for simplicity and accuracy, TcpGPS enables efficient point, linear, and polygonal object measurements, while also supporting the linking of photographs, voice memos, and user-defined attributes. The app includes tools for stakeout operations using maps, compasses, or targets with voice prompts for precise navigation. Users can leverage drawing tools, plot division, and merging features to enhance data collection, while easily exporting data to the cloud in multiple formats.

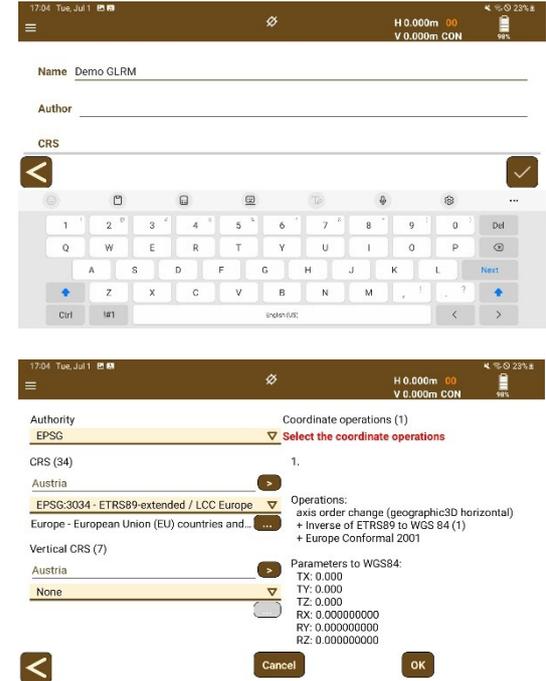
<p>Once the receiver is powered on and the TcpGPS app is launched, the first step is to establish a connection with the GLRM receiver. Ensure that the Bluetooth is enabled on tablet or smartphone.</p>	
<p>From the drop-down list under "Device Types," select GNSS External Receiver (Bluetooth BLE). This option will allow TcpGPS to connect to the GLRM receiver via Bluetooth Low Energy (BLE), ensuring a stable and efficient connection for high-precision GNSS data.</p>	
<p>From the brand list, select General Laser, and then choose the appropriate model from the list: either GLRM-Pole or GLRM-Phone, depending on your specific configuration. After selecting the model, navigate to the Device tab to search for available devices. The app will display a list of nearby devices, allowing you to select your GLRM receiver for connection.</p>	

<p>After selecting the device, you will be redirected back to the configuration window. Once the GLRM receiver is properly configured, press "Connect" to establish the connection. The app will confirm the successful connection, allowing you to proceed with the next steps in your survey.</p>	
<p>If everything is set up correctly, you will be redirected to a new window displaying the following icons: Rover, Constellations, and Tilt.</p> <p>Constellations: This menu allows you to configure satellite settings and view the satellite constellations currently in use.</p> <p>Rover: In this menu, you can adjust the elevation mask and configure NTRIP settings for real-time correction data.</p> <p>Tilt: This menu provides options to configure tilt compensation for the unit, ensuring accurate measurements even when the receiver is tilted.</p>	
<p>By tapping on the Rover tab, you can configure the elevation mask and set up the NTRIP profile to receive correction data. The elevation mask allows you to filter out low satellites, improving the accuracy of your GNSS measurements. In the NTRIP section, enter the necessary details for your NTRIP correction service. Once configured correctly, you should see an indication that the receiver is successfully receiving correction data, ensuring enhanced positioning accuracy for your survey.</p>	
<p>Additionally, in the GNSS Status section, you can view the skyplot, which provides a visual representation of the satellite positions relative to your receiver. This helps you assess the quality of satellite coverage. You can also check the solution status, which indicates the current positioning mode (e.g., RTK, DGPS, etc.), and monitor the coordinates in real-time, ensuring that your receiver is providing accurate position data for your survey.</p>	

In the Tilt menu, you can configure the tilt compensation for the GLRM by selecting the appropriate antenna position and setting the antenna height. This ensures that the receiver accounts for any tilt, providing accurate measurements even when the unit is not perfectly level. By properly adjusting these settings, you can optimize the system's performance and maintain precision during your surveying tasks.



Once the unit is connected and configured, the next step is to set up your project. Begin by creating a new project within the TcpGPS app. After the project is created, select the appropriate coordinate system for your survey. This ensures that all measurements and data captured during the survey are properly georeferenced. Choose from the available coordinate systems, or if necessary, enter custom parameters to match your project's requirements.



After setting up your project and selecting the coordinate system, you will be redirected to the surveying workspace. In this workspace, you can create layers to organize your data, as well as collect points, lines, and other objects according to your surveying needs. The app also allows you to stake out points, lines, or polylines with precision, along with additional functionalities to enhance your surveying workflow. Whether you are mapping features or marking specific locations, the workspace provides all the necessary tools for efficient data collection and management.

