This manual provides a step-by-step guide on how to set up, connect, and perform field surveying using the GLRM GNSS receiver in combination with the GLA RTK application.

GLA RTK (Android)

Working with GLA RTK Creating a Project in GLA RTK				
2.	Tap the folder icon at the top of the screen to access the project settings.			
3.	From there, you can create a new project by entering a name and configuring basic settings.	Alterior Ocean Nursea Research Sabirs Liky Egyt Sabirs Ocean Control C		
	ng a project is the first step before starting GNSS pllection.			
Setting	g Up Project Details			
In the oproject	dropdown menu, tap the first icon to configure the	CLA-RTK C. Now Land survey C Cpcn Sove C Cpcn Sove C Cpcn C Const C		
•	Name – Assign a clear and descriptive name to the project.	Chersettings		
•	Saving Location – Choose where the project data will be stored on your device.	Save		
•	Format – Select the desired data format (e.g., CSV, TXT) for export and compatibility.	GLA RTK GLA RTK		
	settings ensure your project is organized and for accurate GNSS data collection.	ġġ .agl		
Config	guring Coordinate System and Geoid Model			
After creating the project:		Settings		
1.	Return to the main window of the GLA RTK app.	Main settings		
2.	Tap the folder icon again and select "Other Settings" from the dropdown list.	Austria - ETRS89 -		
3.	In this menu, you can configure key survey parameters:	Meters - Display		
•	Coordinate System – Choose the appropriate CRS (e.g., UTM, local grid, EPSG code).	Lat/lon/alt - Map -		
•	Geoid Model – Select a geoid model to enable accurate elevation data (e.g., EGM96).			
	settings are essential to ensure your collected nates are referenced correctly.			

Config	uring Survey Layers	Layer manager
To organize your survey data, you can create and customize layers:		
1.	From the main menu, tap the colorful icon (orange-blue-green) to open the layer settings.	
2.	By default, one layer is already available.	Layer manager
3.	To add a new layer, tap the folder icon with a plus sign at the top:	O By Default Continuous Manhole By Default Continuous Traffic Sign By Default Continuous Trees By Default Continuous
	Define the layer nameChoose a colorSet the line type and line thickness	
4.	Once all desired layers are configured, tap the check mark to save and return to the main screen.	
	n layers help organize different feature types data collection.	
Conne	cting to the GLRM Receiver	
With your project and layers set up, you can now connect to the GLRM GNSS receiver:		CLA-RTK.
1.	From the main menu, tap the "chain" icon to open the connection settings.	
2.	Select "Connect" to initiate the connection with the GLRM device.	
Establishing Connection via BLE and Configuring NTRIP		Connect
1.	In the connection settings, select "BLE" (Bluetooth Low Energy) as the connection method.	방원 BLE - (★) GLRM-020a8 -
2.	Choose your GLRM unit from the list of available devices.	General Laser GLRN - General Laser GLRN - Co.000
3.	Set the antenna height accurately for precise elevation measurements.	Antenna
4.	In the "NTRIP" dropdown menu, select "Android Device" to enable the use of your phone's internet connection for receiving correction data from an NTRIP provider.	
Config	uring NTRIP Settings	
In the NTRIP settings window, enter the following connection details provided by your correction service:		
•	NTRIP Address (e.g., caster IP or URL) Port Number Username	
•	Password	

Mount Daint	NITDID
Mount Point	NTRIP
After entering the required information:	
1. Scroll back up in the settings.	∲ #
2. Tap the chain icon again to initiate the connection.	Pick ~
 You will be redirected to the main screen, and the app will begin receiving correction data from the NTRIP provider. 	
Tilt Compensation Prompt	Anna Print P
During connection, a window may appear asking whether to enable tilt compensation.	Submit your question Do you want to use lift functionality?
You can choose to:	+ and an and
 Enable it – useful for projects where the pole is not held perfectly vertical (e.g., mapping hard-to- reach points). Disable it – recommended for high-precision surveys where vertical alignment is ensured. 	
Select the option that best suits your project requirements.	
Verifying Connection and Starting Survey	
Once the GLRM receiver is connected, you will see:	GLA-RTK Di II & Di Land survey
The number of satellites currently in viewThe status of correction data	
You can now select the desired layer and begin mapping features according to your survey plan.	
Collecting Features in GLA RTK	
GLA RTK supports the collection of various geometry types: Point, Line, Arc, Polyline, and Area. Here's how to map each:	GLA-RTK Image: Constraint of the survey Image: Constraint of the survey Land survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey Image: Constraint of the survey
 Point Tap the left circle icon to record a point at your current GNSS position. 	SPS:27
Line	
Survey the starting point.Move to the next location, then tap the line icon to draw the line between the two points.	
Arc	
 Survey the start point of the arc. At the midpoint, tap the line icon. At the end point, tap the arc icon to complete the arc geometry. 	

Polyline	
 Record the first point. At each subsequent vertex, tap the polyline icon to extend the polyline. 	
This flexible workflow allows for accurate mapping of both simple and complex geometries in the field.	
Adding Comments to Features	
You can add comments to features during data collection:	Comment
1. Select the desired object on the map.	T Apglos
2. Open the main menu and tap on the "Comment" option.	T 2.5
3. Enter your text and confirm.	
This allows you to document observations or notes directly within the project.	
Using the Stake Out Function	GLA-RTK 🕅 🔀 Land survey 🕽
GLA RTK also offers a Stake Out feature to guide you to predefined points in the field.	Stake out Line 48.19293 Line 16.3 Carolada State Carolada State Ca
To access it:	GLA-RTK
1. In the main menu, tap the "three rectangles" icon in the top bar.	Stake out Un 48 19293 Lun 16; BB Calculation Calculation Lun 48 19293 Lun 16; BB Calculation Lun 48 1929 Lun 48 1929 Lun 48 1929 Lun 48 1929 Lun 48 1920 Lun 48
2. From the pop-up menu, select "Stake Out".	 ↔ 6.763 ✓ 0.789
Once in the Stake Out interface, follow the on-screen directions to navigate accurately to the target point.	
Using the Calculation Tools	
GLA RTK includes built-in tools to calculate distances, areas, and height differences between collected features.	Calculate
To access these tools:	Arrea
 Tap the "three rectangles" icon in the top bar of the main menu. 	And Volume Max Volume Max Crud Side Service
2. Select "Calculate" from the pop-up window.	Calculation The distance between the points 9 and 8 is 3, 561 m
From there, choose the desired calculation type and select the relevant features to perform measurements directly within your project.	OK

Saving Your Survey Project

After completing your survey:

- 1. Tap the "folder" icon in the top bar.
- 2. From the pop-up menu, select "Save" to store your collected data.
- 3. Then tap the "check mark" icon to confirm and finalize the project save.

Your project is now safely stored and ready for export or further processing.

