

RTK Scanning Guide: Using the General Laser GLRM with Dot3D Prime (for real-time corrections)

1. Verify you have all **required components**:

1. General Laser GLRM
2. iPhone Pro (or Pro Max)
3. Dot3D **Prime** Subscription
4. Corrections Service / Credentials



2. Enter your **NTRIP details** into Dot3D from Settings > GNSS & Geo Settings > NTRIP Configurations.

Configure NTRIP

Enter NTRIP Caster Access Data:

MaCORS

Mount Point

Reference System

Config name (optional):

Any Name

Test Config

Abort

Save Config

Internet Address / URL

Port

Address / URL

2101

Username

Password

Username

Password

Abort

Next

Mar 30, 2026 0 File

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Trimble DA2

Leica FLX 100 Plus

Bad Elf Flex Mini

Emlid Reach RX

RoboDot Touch

General Laser GLRM

NTRIP Configuration:

MaCORS

Status Overview

Delete NTRIP Configs

Status Overview

Delete NTRIP Configs

You should find your NTRIP Caster Access Data, as well as the correct Mount Point, in your correction provider's documentation. Typically you will also find the corresponding Coordinate Reference System (CRS) in there, which should be set under "Reference System" on the second page of the NTRIP configuration dialog. If no CRS is provided, you may use "Auto/Guess".

3. Turn on the GLRM (via the touch sensor). Verify it's blinking blue (ready to connect).

GLRM uses a touch sensor to turn on and off. The sensor is located on top the of the long white stripe, visualized in [Figure 2.1](#).

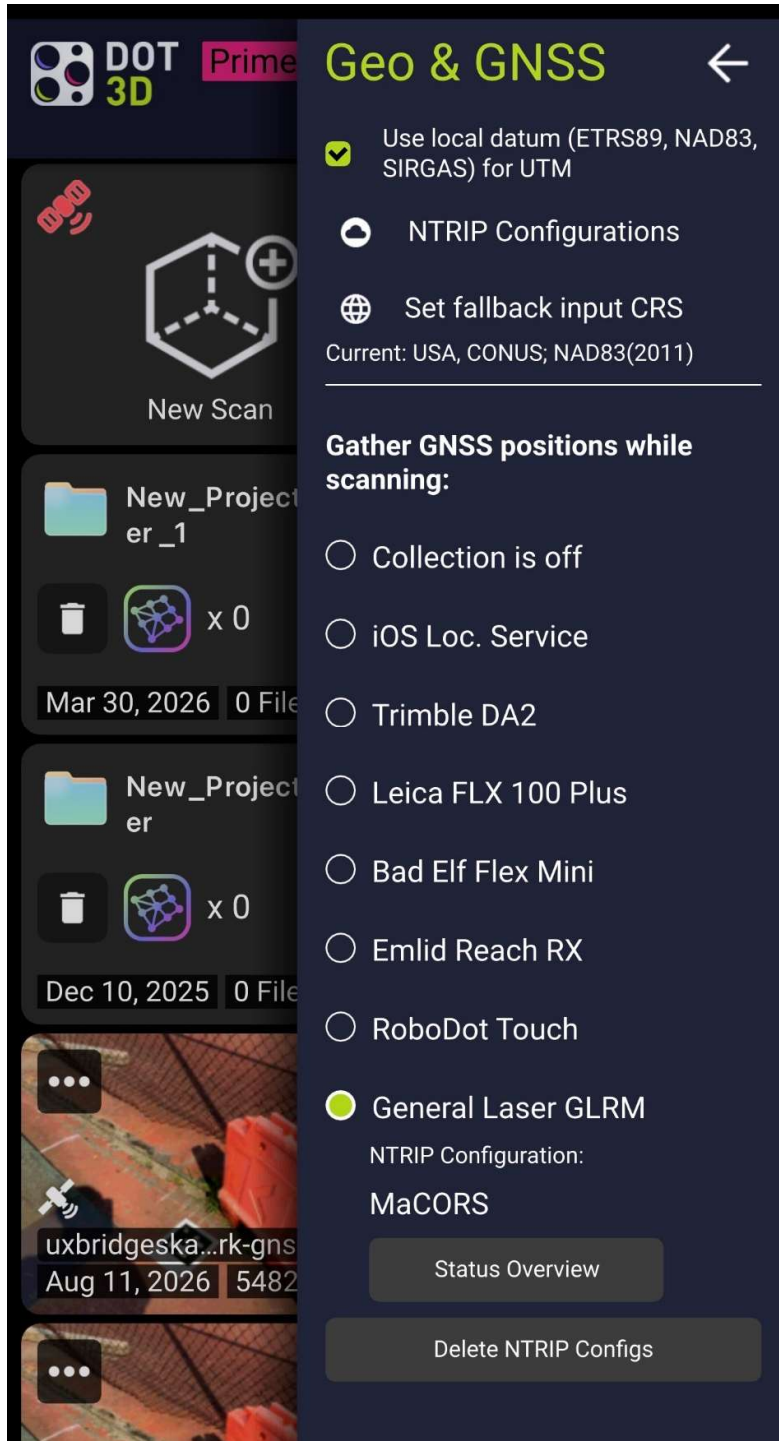
To turn the GLRM on, the following touch sequence is used:

1. Press the touch button for about 1 second or until you see the purple status LED.
2. Release the touch button for a short period (≈ 0.5 s).
3. Press the touch button again and hold for a minimum of 2 seconds or until the status LED starts blink blue, indicating that the GLRM is now turned on and in advertising mode.

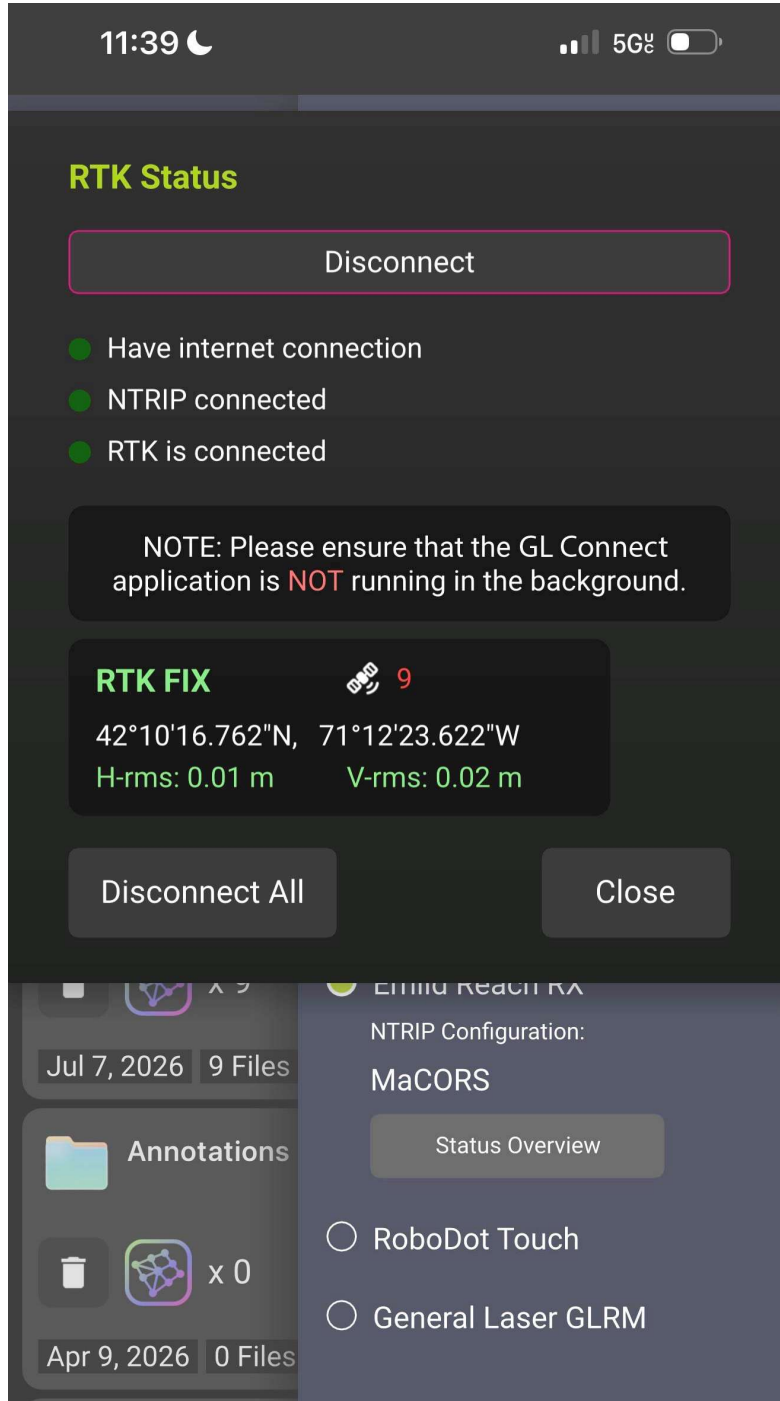


Figure 2.1: GLRM touch button location

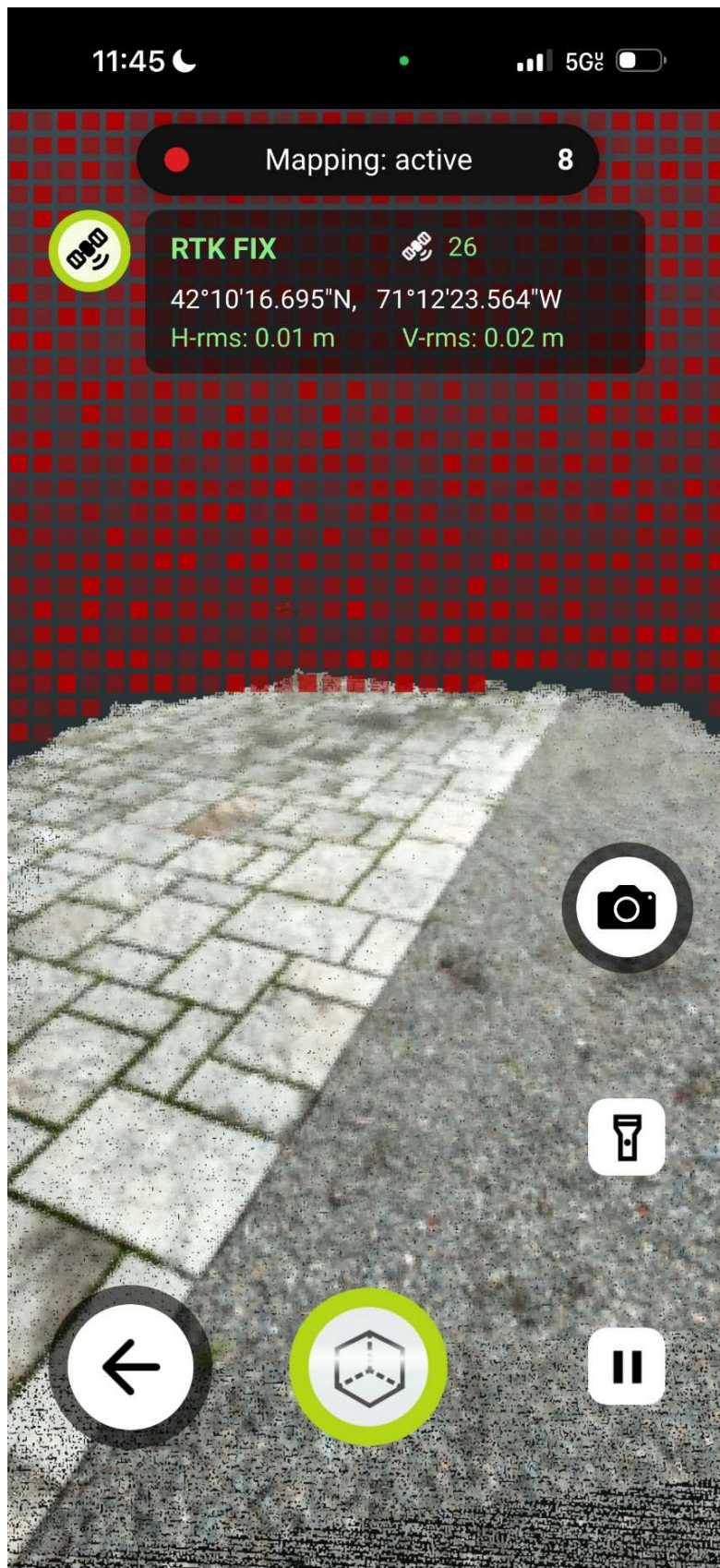
4. Navigate to Settings > GNSS & Geo Settings (inside Dot3D), select "General Laser GLRM", and test your connection via the "**Status Overview**" button. If you haven't already, step outside at this stage.



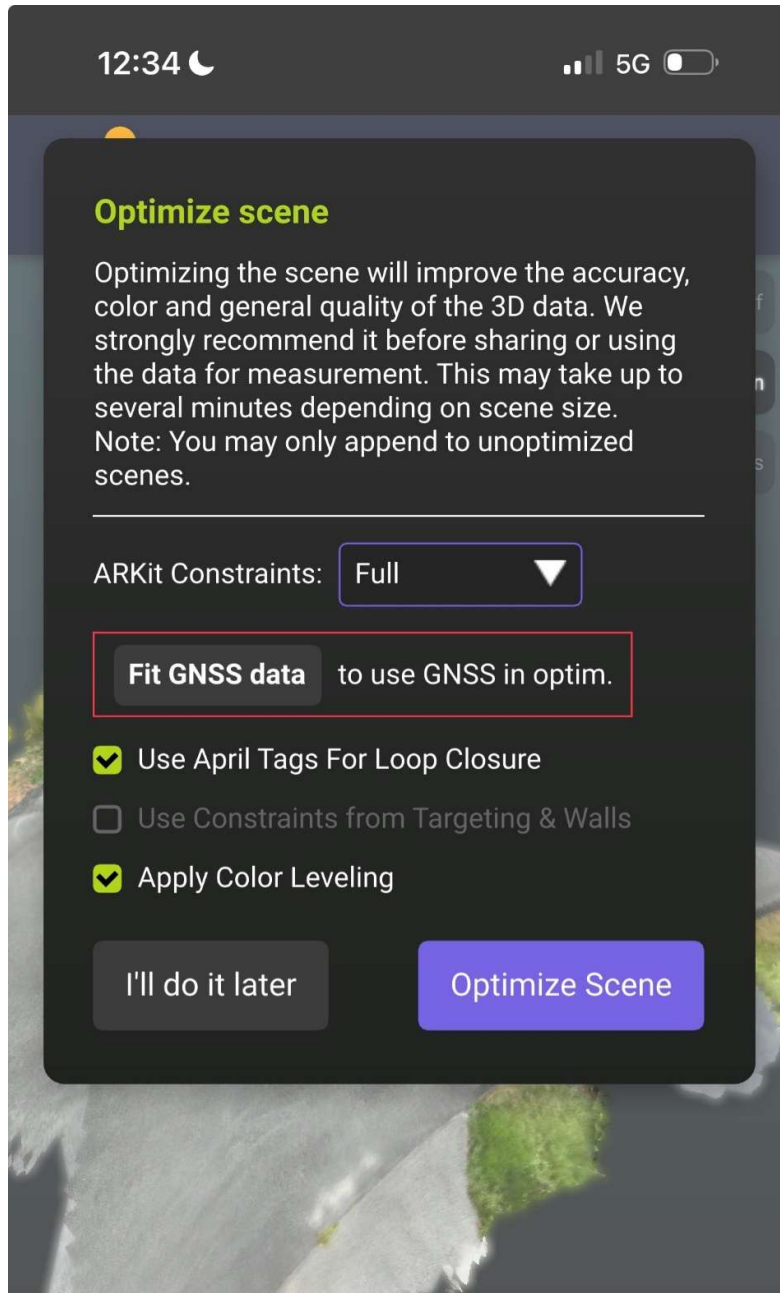
5. Wait for a strong signal before starting your scan (**RTK Fix**). Hold the device still to help acquire more satellites / better signal.



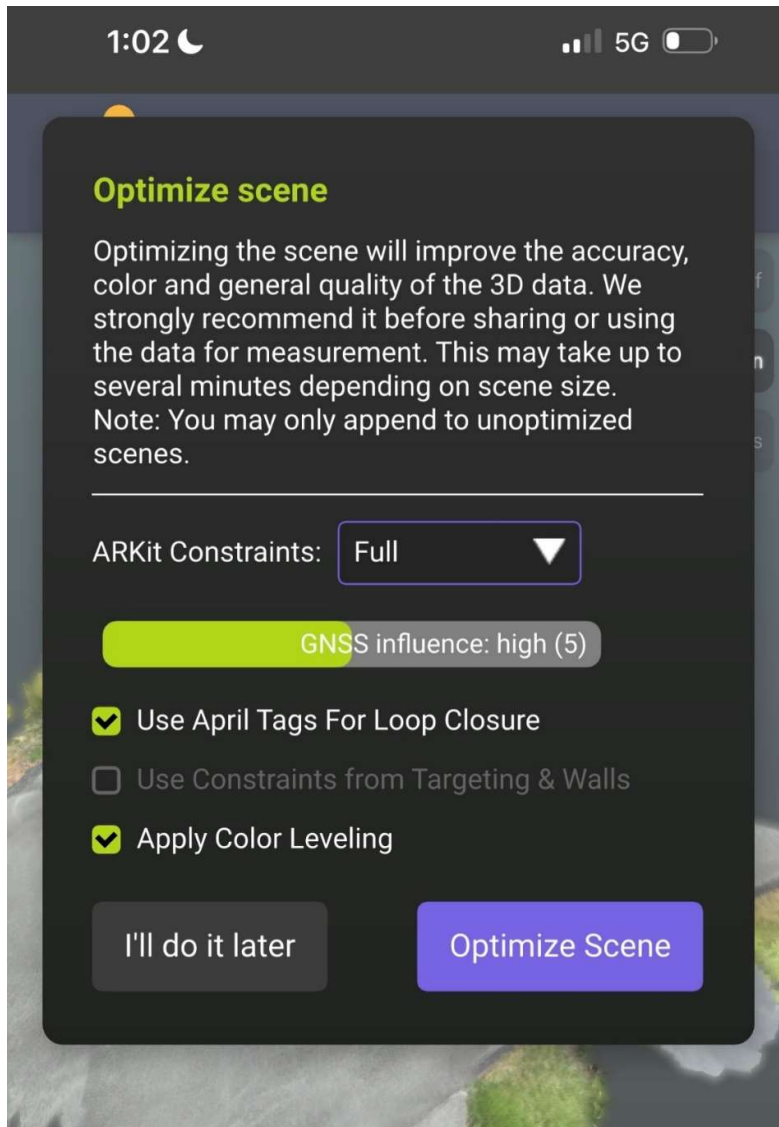
6. Once you're ready, **start scanning** as usual. The green satellite button can be toggled on/off at any time to display signal quality.



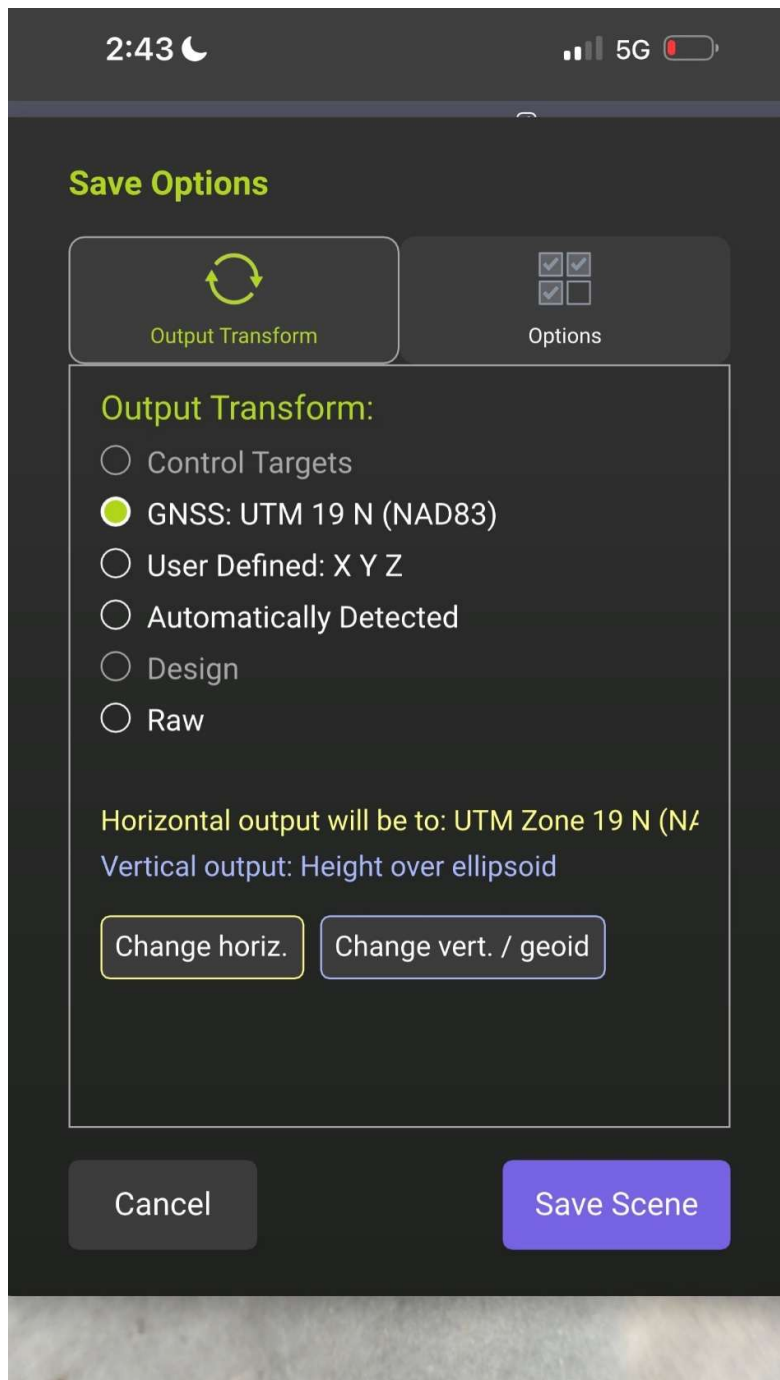
7. After completing a scan with real-time RTK/GNSS enabled, make sure to "**Fit GNSS Trajectory**" before optimizing. This can be accessed from either Settings > GNSS or from the Optimization window.



8. Now when you optimize, you'll see the **GNSS constraints bar** activated. This should typically be left on its default influence strength.



9. Once ready to move the data out of Dot3D / off-device, make sure to **select GNSS as your output transform** (during Save/Export process).



Tip: If running into any issues with your connection in Dot3D, try using the same configuration in the [GL Connect](#) app to see what happens there. You should normally see the same results both places. If issues persist, contact Dot3D support. *However, please be advised: The GL Connect app should be closed before establishing a connection in Dot3D.*