

Quick Guide

MALÅ Controller App

The operation and interpretations made based on the use of this product is the sole responsibility of the operator. Please make sure to read the full disclaimer in the user manual before operating the product.

Items needed

- A compatible Android mobile device, such as our recommended device: Samsung Tab Active Pro (4G and 5G).
- An App-Enabled antenna.
- The MALÅ Controller App.



Installation

Scan the QR code to reach the product page. From there, download and install the app (provided as an apk-file) on your Android mobile device. Make sure to allow the requested permissions.


Set up mobile hotspot

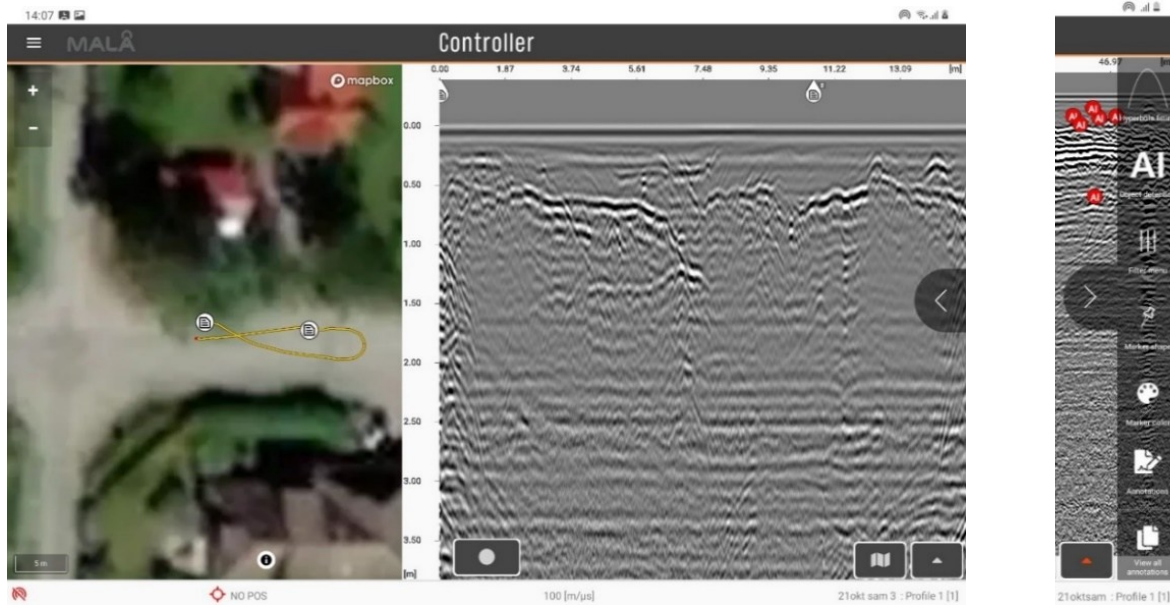
- For the mobile hotspot set up, you will need the serial number (S/N) of the antenna to connect. You'll find the serial number printed on the antenna
- Change the network name (SSID) to **MALAXxxxxxxx**, where **xxxxxxx** refers to the serial number
- Change the password for the mobile hotspot to **mala0123**
- Enable the mobile hotspot to allow this specific antenna to connect to your mobile device

Note: Make sure to disable the timeout for the hotspot connection. For the Samsung Tab Active Pro this is done in following menu: Settings – Connections – Mobile Hotspot and Tethering – Advanced.

Start measurements

Start the app and select 2D or 3D project or Project Manager to continue an existing project. Check the Measurement settings in the Main menu  and start measurements

by pressing the red button on the Measurement screen. Floating panels for hyperbola fitting, AI, filters, markers and annotations are found in the slide-out menu on the right-hand side of the screen. Toggle between the three different views (map+radargram, only radargram or only map) by pressing .



Upload to MALÅ Vision

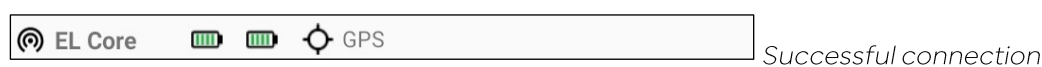
Export of data to MALÅ Vision is easy and seamless. Make sure your mobile device is connected to the Internet. Simply press the MALÅ Vision button on the Start page and choose if you want to Open or Export data. Select the project to be uploaded. Please note that only one project at a time can be uploaded to your selected account.

External GNSS

The output from the external GNSS should be in NMEA0183 and at least 5Hz (one point every 0.2 sec).

Wireless connection

To communicate between the GPR antenna and MALÅ Controller App, Wi-Fi (mobile hotspot) is used. When communication is working, the antenna model is displayed to the left in the status bar in MALÅ Controller App together with battery and positioning status.



It is important to have a stable Wi-Fi connection between the mobile device and GPR antenna for effortless data collection. The MALÅ Controller App has advanced features to minimize the impact of difficult Wi-Fi conditions while you measure such as automatic sync to recover data from interruptions.

Unstable Wi-Fi connections are typically caused by wireless interference. This can occur in apartment complexes or other dense areas, where several Wi-Fi networks are active nearby.

Troubleshooting connectivity issues

We recommend the following when troubleshooting connectivity:

1. If you can't connect to the antenna at all make sure you follow the workflow described in the section "Set up mobile hotspot" in the beginning of this Quick Guide. **Make sure everything is configured exactly as described.**
2. Ideally set up your system in an area **with minimal Wi-Fi interference** to reduce potential problems.
3. Make sure that there is **no other hotspot** with the same network name (SSID) running on another mobile device. Do this by disable the hotspot and search for Wi-Fi networks. Make sure there is no other Wi-Fi network with the same SSID as you have set up.
4. Disable Wi-Fi on your mobile device and then turn off and turn on the hotspot.
5. Make sure you're using the correct SSID for the hotspot (MALAxxxxxxx). The xxxxxxxx indicate the serial number of your GPR antenna. Also check the password, which should be mala0123
6. Make sure that the antenna **batteries are charged**. For Easy Locator Core, the indicator on the batteries should have at least two bars. The LED may be on even though there is not enough battery power to initiate connection to MALÅ Controller App.
7. If that doesn't work, **restart the MALÅ Controller App** on your mobile device and wait for at least 30 seconds. This is done by "Close all" or swipe off the app in the Recent view (button with three lines or a square).
8. **Easy Locator Core specific:** If you still cannot get connection, or if you for some reason would lose connection to the antenna, press the ON/OFF button on the antenna 5 times within 5 seconds. This will reinitialize the antenna and reset the connection. Please note that this may take up to 2 minutes.
9. If that doesn't work press and **hold the ON/OFF button** to turn the antenna off completely, then power it on again.
10. If the above doesn't work, contact us at support@guidelinegeo.com