Quick Guide

MIRA Controller

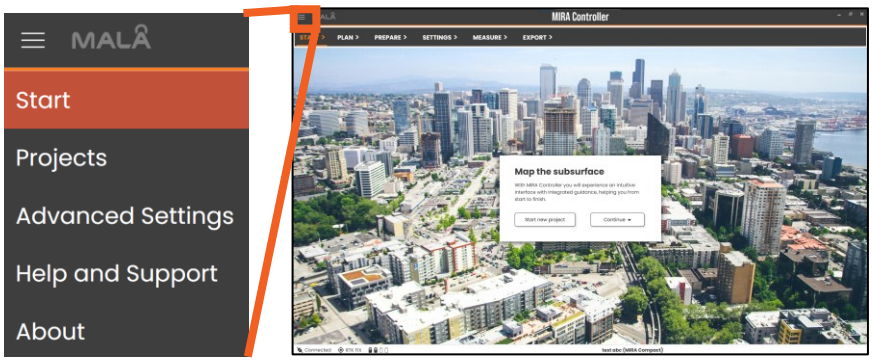
Installation

The MIRA Controller software is found on our webpage www.guidelinegeo.com. Always make sure you use the latest version and install the software on the computer that will be used for data collection together with your MIRA HDR, MIRA Compact and MIRA Flex system. Make sure the software is NOT in demo mode.

Start up

Start MIRA Controller and begin by selecting either *Start new project* or *Continue* (an existing project). If *Continue* is selected, choose the desired project to continue in the drop-down menu. The software will then take you to the page where you last left off.

When selecting *Start new project*, make sure to choose the correct MIRA system settings template (MIRA HDR or MIRA Compact). Follow the main tabs, from left to right, to plan, prepare, make measurement settings, measure, and export. The main menu with additional options is in the top left corner.



Plan and Prepare

In the Plan tab you can add project notes, select your application and date. You can also download offline maps or upload kmz/kml-files to e.g., delimit your investigation area.

In the Prepare tab you can define e.g. your application and equipment and get automatic recommendations on measurement settings. An easy setup workflow is also available on this page to verify that all necessary pre-survey preparations are carried out. Make sure to choose the correct system, MIRA HDR or MIRA Compact, as this will affect the settings in the following tabs.

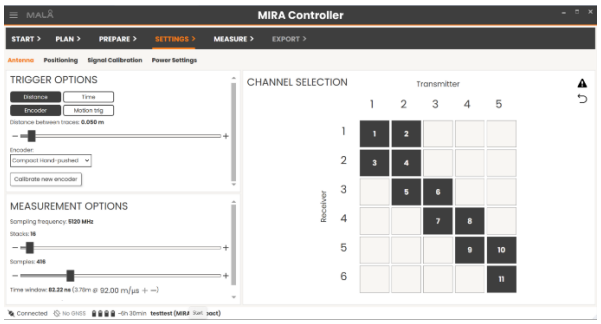
Settings

In the Settings tab you can set and adjust all measurement parameters for the MIRA system, set your positioning preferences and manage the connection to your external positioning device.



In the Antenna tab you define your trigger and measurement options (trigger option, time/distance between traces, stacks, number of samples (with a calculated time window) and an estimated maximum survey velocity based on your settings.

You are also presented with an editable overview of the active data channels.



Please make sure you use the recommended number of active channels for your MIRA system to ensure a successful survey. Also make sure your MIRA system is connected to a high accuracy positioning system (RTK-GNSS or Total Station). Positioning settings are available in the *Positioning* tab.

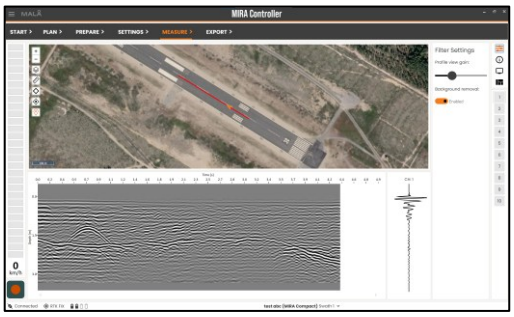
Note: Make sure the correct GNSS or Total Station Prism offset is defined in the positioning tab.

Note: Make sure to regularly carry out system signal calibrations (in the *Signal Calibration* tab) before starting new measurements.

Measure

When all settings are verified, go to the *Measure* tab to start your survey. The measurement tab contains dynamic menus which allows you to select your preferred active windows and filters. These can be accessed from the menus in the top right corner of the screen.

Press ⏺ to start your measurement and press ⏹ to stop the measurement. Measurements can also be started with function key F3 and stopped with function key F5.



Export

In the *Export* tab you can export your data to different formats and save it to the project folder. Choose the format and press *Start export*. If MALÅ Vision Desktop is selected and this software is pre-installed on your survey laptop, the software will automatically be opened, and your selected project imported and processed.

Note: We highly recommend the use of MALÅ Vision Desktop for post-processing and interpretation of your MIRA HDR and MIRA Compact data.

User guide

Detailed instructions are available in the *MIRA Controller User guide*. Download it from www.guidelinegeo.com.