

# MIRA COMPACT

GROUND PENETRATING RADAR

3D GPR MAPPING IN A COMPACT FORMAT



# MIRA Compact – large surveys simplified

**MIRA Compact is a high-speed, one-pass 3D GPR system, offering the most efficient hand-pushed solution for small to large-area GPR mapping.**

With the highest data-channel density in the GPR market, MIRA Compact delivers unsurpassed resolution, producing data with minimal noise. It enables high-speed data collection and offers enhanced functionality through improved mechanical design and modern software solutions. The MIRA Compact provides unparalleled functionality in an easy-to-use package.

Three simple steps:

**PREPARE – MEASURE – REPORT**

Step one:

## PREPARE

**The MIRA Compact is delivered in one piece – a minimum effort is required before measurements can commence.**

Simply raise the push handle and mount your field computer. Connect and activate your GNSS for accurate positioning. Ensure all connections are secure and power up the MIRA Compact.

**Start the MIRA Controller** software and prepare your background maps for the investigation area.



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Step two:

# MEASURE

Measurements on the MIRA Compact are easily initiated and stopped with a single click, automatically saving both GPR and positioning data.

The MIRA Controller data collection software monitors instrument performance and data collection, helping you maintain optimal speed and direction to **enhance fieldwork efficiency**.

**Use the MIRA Compact for:** utility mapping, archaeology, UST and UXO detection, general road assessment, sinkhole detection, forensic applications, and general site investigations.

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Powerful GPR data acquisition

## MIRA Controller

The MIRA Controller acquisition software provides a **modern and user-friendly experience**, seamlessly integrating navigation aids to enhance the quality of your measurements.

From the initial setup to the export of data, the workflow is **intuitively structured**. As a user, you receive guidance on optimal measurement settings tailored to different applications, ensuring **smooth and efficient** operation throughout.



Step three:

# REPORT

**MALÅ** VISION

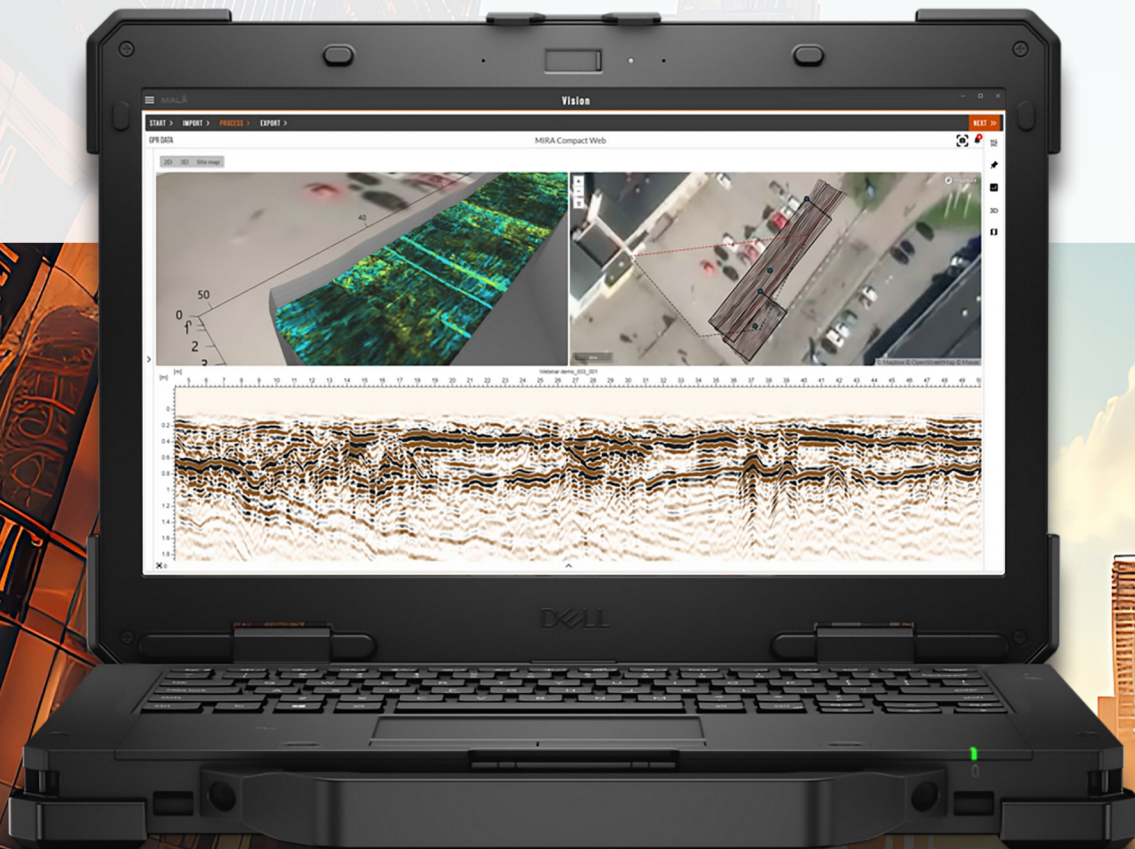
**MALÅ Vision Desktop** makes the processing and reporting of MIRA Compact data easy. Built on the powerful MALÅ Vision platform, this intuitive desktop software effortlessly handles 3D GPR array datasets.

MALÅ Vision Desktop **excels in speed and efficiency**, particularly when managing large datasets. The software is optimized for processing, analyzing, and interpreting MIRA GPR array data.

For added convenience, users have the option to automate both processing and the creation of depth slices entirely. MALÅ Vision Desktop **determines the most suitable settings** for these steps based on the input data.

The data can be **simultaneously** viewed in **Site Map, 3D, and 2D formats**, with various tools available for interpretation. These features aim to make radar results clear and understandable.

Finally – exporting your results is **quick and easy**; either as a ready report, or as depth slices and interpreted objects in various industry-standard formats.



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**MIRA Compact** is a versatile and light weight 3D GPR array solution for high-detail mapping of the subsurface. It is designed and optimized for any hand-pushed 3D GPR mapping projects – such as utility mapping and archaeological investigations etc. The MALÅ HDR technology delivers market leading data quality with optimal resolution at maximum penetration depth.

**The MIRA Controller** acquisition software provides step-by-step guidance for your project, from start to finish. MALÅ Vision Desktop offers powerful tools for efficient data processing and analysis. The MALÅ software is user-friendly, streamlining your fieldwork and delivering quick results.



## Technical Specification

|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| <b>Antenna frequency:</b>                | 500 MHz                                           |
| <b>Dimensions (in operation):</b>        | 117 x 98 x 105 cm (46 x 38.5 x 41")               |
| <b>Total weight (in operation):</b>      | 42 kg (92.6 lbs)                                  |
| <b>Weight of antenna:</b>                | 24 kg (53 lbs)                                    |
| <b>Weight of frame:</b>                  | 18 kg (40 lbs)                                    |
| <b>Maximum number of channels:</b>       | 30                                                |
| <b>Channel spacing:</b>                  | 6.5 cm (2.56")                                    |
| <b>Swath width:</b>                      | 60 cm (23.6")                                     |
| <b>Maximum recommended survey speed:</b> | Highway speed                                     |
| <b>Operating time:</b>                   | 8 hours (Hotswappable batteries)                  |
| <b>Environmental protection:</b>         | IP65                                              |
| <b>Suitable applications:</b>            | Utility mapping, Archaeological Prospection, etc. |



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