



# Ground Explorer

GROUND PENETRATING RADAR

The flexible GPR solution





# GPR with exceptional range and resolution

MALÅ GX (Ground Explorer) is an integrated GPR solution with a wide range of antenna options. Through unique HDR technology, MALÅ GX offers significantly better data quality and faster acquisition rates. The GX series of antennas are fully integrated with MALÅ Controller App and MALÅ Vision.

**MALÅ Ground Explorer** is an easy-to-use and field proven GPR solution for a wide range of different applications. The antennas support optional external RTK GNSS with GPS Time Synchronization (PPS) for enhanced positioning accuracy. They also include built-in DGNSS, mobile device positioning, encoder, and total station support. Newer models add MALÅ Motion Trig, enabling GPR pulse triggering via the internal DGNSS. The Ground Explorer supports wireless data collection through WiFi. Normal working range varies between 25-100 meters depending on local conditions.

GX80 HDR

GX160 HDR

GX450 HDR

GX750 HDR

Data collection can be carried out using the high-resolution, field worthy, GX Controller, or using recommended Android tablets and MALÅ Controller App. The latter solution will only work with wireless data collection. If a wire connection is preferred the GX Controller is your choice.

## Typical applications

- Archaeology
- Geological Exploration
- Infrastructure & Construction
- Geotechnical & Environmental
- Military & Police

GX Pulling Kit



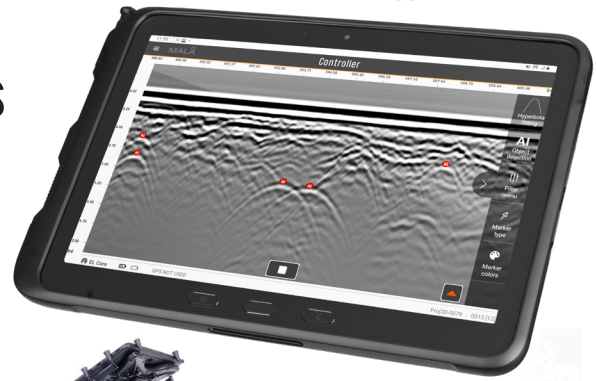
# Facilitating field measurements

Every MALÅ Ground Explorer solution contains two separate components: the GX Controller and the GX antenna. These are connected either through a single cable or WiFi. The system is typically configured as either a push- or pull-solution.

Configured as a push-solution, either the GX Controller or a tablet are mounted on a MALÅ Rough Terrain Cart (RTC) or MALÅ RTC Mini together with the antenna.

When configuring the Ground Explorer as a pull-solution your encoder wheel of choice is mounted on the antenna. The GX Controller or tablet is then carried with the shoulder harness and the antenna assembly can be pulled with a pulling handle or a strap.

MALÅ Controller App



RTC Mini



## GPR antennas with 4 different frequencies

**MALÅ Ground Explorer can be optimized** for specific measurements and applications by adding different antennas. For the GX-series of antennas, there are four options to choose from using center-frequencies of 80, 160, 450 or 750MHz.

The choice of antenna frequency will be governed by your application and the desired depth penetration and resolution. All new MALÅ Ground Explorer antennas are app-enabled, and come with WiFi connection per default. This enables full integration with MALÅ Controller app and MALÅ Vision.



Rough Terrain Cart (RTC)



GX Controller

## GPR DATA ACQUISITION ON YOUR MOBILE DEVICE

MALÅ Controller App is an easy-to-use acquisition software to help you go as fast as possible from data collection to delivering results. The intuitive user interface lets you view and interpret while data is being collected.

**Set gain and contrast,** remove background noise and set object and surface markers. The touch-based interface speeds up your survey, letting you deliver results quicker.

After acquiring your GPR data, upload it to MALÅ Vision with markers and metadata. Instantly share and present the data to anyone, anywhere.

