



Ethernet communications  
100Mbit/s



Battery or external 12V supply



Antenna modules



Expansion unit

1. Field rugged Control Unit – IP67

2. 12V Li-ion battery

3. Auxiliary connectors/ ports

4. Antenna modules

5. Connectors for Expansion Unit



## Professional Explorer (ProEx) System

### Ground Penetrating Radar for Structural Investigations

Introducing the Professional Explorer (ProEx) System from MALÅ; a modular, full-range Ground Penetrating Radar (GPR) system designed to meet the needs of the advanced professional user. At the heart of this new system is the ProEx Control Unit. Designed on a completely new technical platform, the ProEx is the most versatile control unit in the MALÅ range and replaces the World famous RAMAC/ GPR CU11 as the new high-end full range system.

GPR offers a practical, reliable and most importantly non-destructive solution for subsurface geophysical and geotechnical investigations.

The ProEx is fully compatible with MALÅ's broad range of antennas and offers a flexible and versatile approach to detecting subsurface targets and geological layers accurately, efficiently and in real-time.

MALÅ's modular design approach offers you a flexible and affordable choice to system configuration. You need only invest in what you need today; however, as your needs change, so can your MALÅ GPR system.

## Main Applications

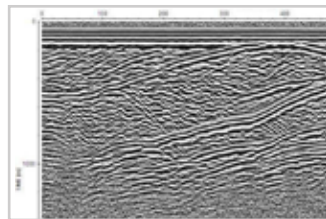
Whatever your application, the ProEx™ can assist in providing solutions to your subsurface investigation needs in areas such as:

- Archeology & Forensics
- Borehole
- Concrete NDT & Civil Engineering
- Environmental
- Geological/Mining
- Ice & Snow Measurements
- Research
- Road & Transportation
- Utility Detection & Mapping
- And more!

## Specific Features

MALÅ is renowned for its innovative designs and the tradition continues with this third-generation digital control unit. The new ProEx boasts a list of practical features rolled into one rugged design suitable for advanced and professional users.

- Modular Design
- Dual hardware channel (4 data channels) as standard
- Multi-channel: max. 8 antennas (16 data channels)
- Supports all MALÅ antennas
- Supports Array configurations
- Ethernet communications
- Pulse Repetition Frequency (PRF): 100 KHz (upgradeable)
- 100 KHz PRF per hardware channel



## System Configuration

The ProEx is a modular digital radar control unit with multi-channel functionality; the base unit comes standard with two hardware channels (4 data channels). This allows connection of two separate antennas for simultaneous data collection whilst also providing a third “virtual antenna”. By adding optional expansion units, the system can be expanded to eight hardware channels (16 data channels) to operate up to eight individual antennas.

A choice of three antenna modules (coax, optical and high frequency) allows the user to connect any MALÅ antenna in various configurations, for single, dual or multi-antenna operation. Thus enabling a wide range of advanced measurements to be carried out.

## Technical Specification

**Power supply:** Li-Ion 12V battery

**Operating time:** 5 h nominal, pending configuration

**Operating temp:** -20° to +50°C / 0° to 120 °F

**Environmental:** IP67

**Dimensions (cm):** 32.5 (h) x 22.2 (w) x 4.2 (d)

**Weight:** 1.9 kg

**Antennas:** The ProEx is fully compatible with the entire range of MALÅ antennas, the XV Monitor data acquisition platform and Windows based GroundVision<sup>1</sup> acquisition software.

A comprehensive technical specification is available on request.

<sup>1</sup> Requires a notebook PC

**See our webpage for latest information.**

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