



Ethernet communications
100Mbit/s



Battery or external 12V
power supply



Antenna modules



Expansion unit

1. Field rugged Control Unit – IP65

2. 12V Li-Ion battery

3. Auxiliary connectors / ports

4. Antenna modules

5. Connectors for Expansion Unit



MALÅ Professional Explorer (ProEx™)

The most versatile GPR unit on the market

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

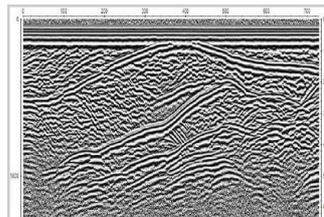
The MALÅ ProEx Control Unit is fully compatible with broad range of antennas from MALÅ Geoscience and offers a flexible and versatile approach to detecting subsurface targets and geological layers accurately, efficiently and in real-time.

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

Main Applications

Whatever your application is, the MALÅ 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 Geoscience is renowned for its innovative designs and the tradition continues with this third-generation digital control unit. The MALÅ 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)
- Multi-channel: max. 8 antennas (16 data channels) as optional
- Supports all antennas from MALÅ Geoscience
- Supports array configurations
- Ethernet communication
- Pulse Repetition Frequency (PRF): 100 KHz (upgradeable)
- 100 KHz PRF per hardware channel

System Configuration

The MALÅ ProEx is a modular digital radar control unit with multi-channel functionality. The unit is designed for two hardware channels (4 data channels) and by adding antenna modules this allows connection of two separate antennas for simultaneous data collection whilst also providing a third "virtual antenna". As an option, the available MALÅ ProEx Expansion Unit can be added to expand the system to eight hardware channels (16 data channels) and operate up to eight individual antennas.

A choice of three antenna modules (optical, high frequency and coax) 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, depending on configuration

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

Environmental: IP65

Dimensions: 32.5 x 22.2 x 4.2 cm

Weight: 1.9 kg

Antennas: The MALÅ ProEx is fully compatible with the entire range of MALÅ Geoscience antennas, the MALÅ XV Monitor data acquisition platform and the MALÅ GroundVision 2¹ acquisition software.

¹ Requires a notebook PC

See our webpage for latest information

Corporate Headquarters Offices

MALÅ Geoscience
Skolgatan 11, SE-930 70
Malå, Sweden
Phone: +46 953 345 50
Fax: +46 953 345 67
E-mail: sales@malags.com

USA: MALÅ Geoscience USA, Inc., 465 Deanna Lane, Charleston, SC 29492
Phone: +1 843 852 5021, Fax: +1 843 284 0684, E-mail: sales.usa@malags.com

China: MALÅ Geoscience (China), Room 2604, Yuan Chen Xin BLDG, No.12 Yu Min Road Chao Yang District, Beijing 100029
Phone: +86 108 225 0728, Fax: +86 108 225 0815, E-mail: sales@malags.com