



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

The Professional Explorer (ProEx) System from MALA 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 ProEx Control Unit. Designed on a completely new technical platform, the ProEx is the most versatile control unit in the MALA 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 MALA'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.

MALA'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 MALA GPR system.

Main Applications

Whatever your application is, 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 channels (up to 4 data channels)
- 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 is designed for 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 (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, 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 GroundVision¹ acquisition software.

A comprehensive technical specification is available on request.

¹ Requires a notebook PC

See our webpage for latest information.

Head Office

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

Your Distributor

GPRtech – Australian MALA GPR Distributor

4/105A Ben Boyd Road, Neutral Bay, NSW 2089, AUSTRALIA
Tel: +61 0438 278 902 | Fax: +61 02 9908 1484
Web: www.malagpr.com.au | Email: sales@malagpr.com.au