



Geo/Utility

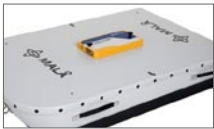
X3M



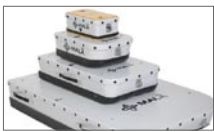
Locking screws



Hi-speed Ethernet communication



Mounts directly onto the antenna



Fits 100-800MHz shielded antennas

1. Field rugged IP67 housing
2. Compact, slim line design
3. Ethernet communication
4. Integrated electronics
5. Single 12v input for X3M and connected antenna



## X3M™

### The Integrated Radar Control Unit

The X3M integrated radar control unit from MALA is compatible with MALA's 100, 250, 500 and 800 MHz shielded antennas and designed to fit directly onto the antenna. This combined with the built-in electronic design, low weight and compact size make the X3M one of the smallest GPR systems available.

An Ethernet link between the X3M and the XV Monitor, or Notebook PC<sup>1</sup>, offers high speed point to point communication for reliable and high quality data transfer. The built-in auto stacking feature ensures optimum data quality at maximum survey speed.

The low power consumption offers in excess of six hours measuring time with a standard battery.

The convenience of this flexible and modular design means that an X3M based GPR system can be quickly and easily configured for use across a wide range of applications, simply by changing the antenna. This flexible approach offers you an affordable choice to system configuration. You only need to invest in what you need today; however, as your needs change, so can your X3M system.

## Main Applications

As the X3M is compatible with MALÅ's range of shielded antennas, the application spectrum is very broad, covering areas such as:

- Archeology
- Civil Engineering
- Environmental
- Geological
- Snow Measurements
- Road & Transportation
- Utility Detection & Mapping

## Specific Features

The product's compact size, field rugged design and easy connection to the antenna make this the ideal choice for applications that require the dedicated use of shielded antennas.

- Operates with MALÅ shielded antennas (100, 250, 500 and 800 MHz)
- Built-in electronics
- High speed communications (Ethernet) with XV Monitor/ notebook PC<sup>1</sup>
- Compact, lightweight, portable and field rugged design IP67
- Auto stacking for highest data quality and optimized speed performance
- Low power consumption for extended operation



## System Configuration

Depending on the application, the X3M system is typically configured as either a pushing or pulling system. As a pushing system the X3M control unit is connected to either a 250, 500 or 800 MHz antenna which is mounted into the Rough Terrain Cart. As a pulling system, a measuring wheel is fitted to the mounting block on the back of the shielded antenna and then the antenna with X3M control unit fitted is pulled across the survey areas by means of a handle or strap. In this set-up, the user wears the XV Monitor or notebook PC on a shoulder/ chest harness/ holder for portability and ease of viewing.

## Technical Specification

**Power supply:** Li-ion battery pack 12V

**Operating time:** >6h with standard battery pack

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

**Environmental:** IP67

**Dimensions:** 310 x 180 x 30 mm/ 12.2 x 7 x 1.2 in

**Weight:** 1.7 kg/ 3.7 lb

**Antennas:** The X3M fully supports MALÅ's range of shielded antennas (100, 250, 500 & 800 MHz). See Shielded Antennas sales sheet.

<sup>1</sup>Running MALÅ's GroundVision data acquisition software.

**See our webpage for latest information.**

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