



12v dc input



External ports, USB, Ethernet and serial



Portable carrying options



Icon driven menu structure

1. Field rugged IP67 housings
2. Impact resistant screen
3. Large colour LCD
4. Unique dual function turn/ push button



XV Monitor™

Data Acquisition Platform and User Interface

The XV Monitor (Monitor) from MALA is a dedicated data acquisition platform and user interface for MALA GPR systems. Traditionally, GPR systems have been operated from a notebook PC, however, MALA has taken the initiative to introduce a powerful and dedicated tool that replaces this traditional approach and thereby offers several significant advantages.

Essentially, the Monitor is a PC, however, as a dedicated tool, there are no extras or non-essential features that are present on standard commercial notebook computers; the Monitor is optimized for the job in hand, i.e. the collection, handling, processing, and presentation of GPR data. The Monitor is designed on a Linux platform, so the start-up is quick, it has low power consumption and the operating system is stable and reliable.

Simplicity and Ease of Use

The user interface has been designed to be simple, intuitive, easy to use and navigate. The ease of use is aided further with a unique dual function turn/ push button for system operation. Therefore, no external keyboard or mouse is necessary and the turn/ push button can even be operated in cold climates where the user must wear gloves, something that can be difficult with standard notebooks, especially those utilizing touch-screens.

The Monitor has been designed with field use in mind, so the rugged housing is rated to IP67 and has a tough impact resistant fascia to protect the color LCD. An optional trans-reflective LCD means that on-screen data can be seen clearly, even when operating in direct bright sunlight, without the need for covers or sun-shades.

Specific Features

MALÅ is wellknown for its innovative designs and the Monitor is no exception. In addition to the benefits described above, the Monitor is packed with practical and useful features to assist in all aspects of the collection, handling, processing, presentation and interpretation of GPR data.

- Project based data collection:
 - Object Mapper¹
 - Grid Project²

For fast and efficient data collection and file transfer to Object Mapper™ or Easy3D™ processing software.

- Includes internal flash memory storage media (1 Gb)
- USB port allows fast dump of data files via external Flash cards
- Fast start-up (approximately 30 seconds) for first measurement
- Automatic on-line filters and simple filter settings enable simple operation and easy data interpretation in the field
- Marker function for surface and buried objects/ reflectors
- Calibration function for direct velocity/ depth calibration to a known target
- GPS support via serial port (NMEA protocol)

¹An Object Mapper Project is used to collect and handle multiple radar profiles linked to a common baseline, particularly useful for utility mapping.

²A Grid Project is used to collect and handle radar data from two perpendicular directions, i.e. X and Y orientations. It allows easy visualization of the entire grid or survey area in a 2.5 D birds-eye view, and also enables viewing through the depth layers of the entire grid project area.

System configuration

The Monitor is compatible for use with the Easy Locator, X3M, ProEx and the old CUII systems, although operating firmware, user features and functionality vary. A modified XV Monitor with additional high frequency electronics is used as the basis for the CX Concrete Imaging System. However, the general user experience is consistent regardless of the system configuration.

Monitor - Easy Locator - Monitor - CX - Monitor - XV

Technical Specification

Power supply: Li-Ion 12V battery or other external source (9-18 V)

Operating temp: -20° to +50°C

Dimensions: 325.8 x 215 x 52 mm (with protruding details 86 mm)

Antennas: All MALÅ antennas, except Borehole tomography measurements

Display: Color backlit TFT LCD (640 x 480 pixels), hi-brite (XV10),
or trans-reflective (XV11)

Operating time: 5 h nominal (12V battery)

Environmental: IP67

Weight: 2.6 kg

Communication: Ethernet 100Mb/s

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