

EM61 LX2 Data Sheet

The EM61 LX2 is a cost effective modular metal detector which has been designed in order to cover vast areas with ease. The Light weight 1m or 2m flexible structure can be ideally carried by two people across variable terrain to accurately detect clusters of munitions, an asset for all UXO and Archaeological applications (Fig.1.)

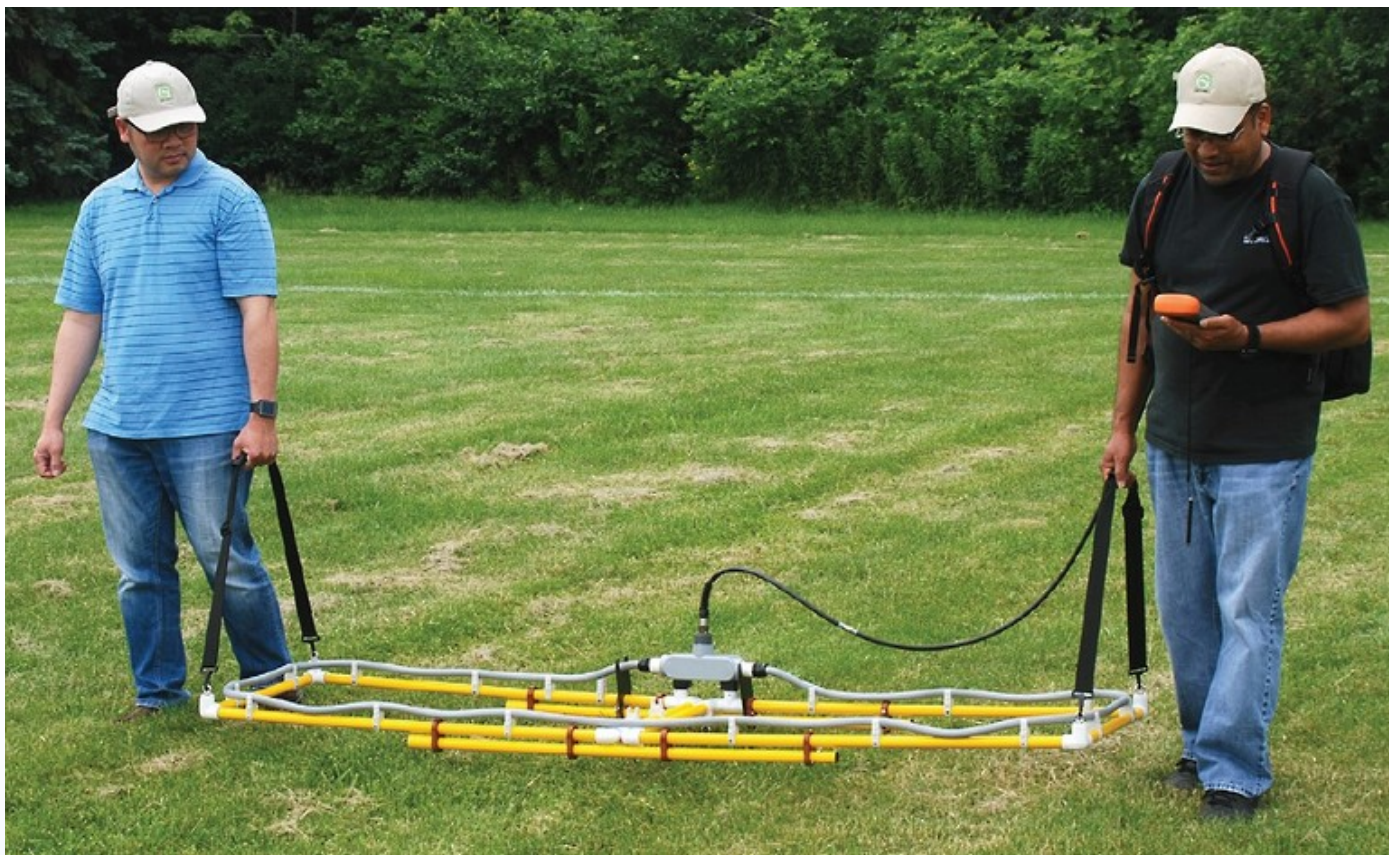


Fig.1. Image showing the typical two person operation of the EM61 LX2 (Photo courteously supplied by Geonics)

This instrument can be used within a variety of conditions, in uneven terrain and near surface soil environments which are a common challenge for most utility and metal detectors. In terms of the depth penetration, the EM61 LX2 is able to detect a BLU-26 sub-munition to a depth of 75 cm beneath the sensor.

All of the data is digitally stored in real time for later processing (Fig.2.) and analysis using specified software packages.

Features:

- A cost effective 2 people operated light weight system, with 1m or 2m configuration.
- Can detect BLU-26 sub-munitions to 75cm depth below the sensor and larger targets detected to no more than 5m below the sensor.
- Data can be acquired using the archer 2 field computer within harsh field environments.
- Proprietary real-time software filter from magnetic soil and rock materials for UXO detection which can increase detection probability, consequentially reducing false positive alarms.
- Real-time data presentation
- Is compatible with GPS and supports data mapping, re-acquisition, if there is no GPS lock an alarm will sound

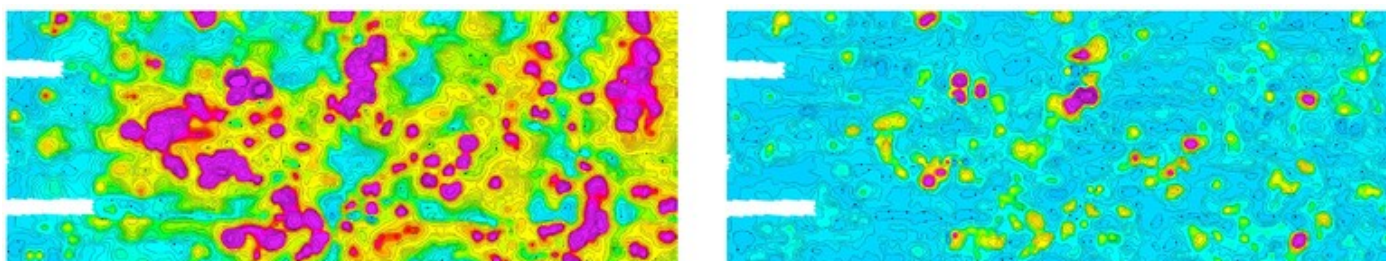


Fig.2. The image on the right shows the raw data acquisition data and the image on the left shows the filtered post processed data of the metallic targets, plus the magnetic signature of the rocks and soil (Image courteously provided by Geonics)

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	210 cm x 56cm x 13cm	7.5kg; 2.5kg (console); 4.5kg (battery pack)

Technical Specifications

Measured Quantity:	Two channel fields and filtered response
EM Source:	Air-Cored Coil (2.10m x 0.52m)
Current Waveform:	Unipolar pulse with 25% cycle
EM Sensors:	2 x Air-Cored Coils (1.03m x 0.5m each)
Dynamic Range:	18 bits (minimum)
Gates:	Early and Late from each of the two channels
Power Source:	12V rechargeable battery pack
System Controller:	Archer 2 Field Computer
Acquisition Speed:	16 complete records per second
Data Storage:	8GB flash with 350 M records (approx.)