

Fold-up Deep Search Metal Detector **SMD12**



Features

- active metal detection system for area surveys
- precise detection of metal objects (ferrous/non-ferrous)
- innovative ultra light weight fold-up frame
- set up within 2 minutes
- measurements with or without data logging
- 3 operation modes
- 5 sensitivity levels
- easy to use/minimum training required
- data processing and analysis by SENSYS MAGNETO® software

The SMD12 is an active, highly sensitive survey system using the method of TDEM („Time Domain Electromagnetics“) in order to detect ferrous and non-ferrous metal objects in the ground.

The innovative coil frame weights only 3.2kg already including a set of differential coils. Thanks to the fold-up mechanism, the coil frame is set up in less than 2 minutes.

With the basic frame size of 1x1m the system is made for middle sized areas or for areas that are difficult to access by push carts and cars. On request, different frame sizes can be ordered or combined.

The approach of using two coils with one above the other allows for differential measurements and simplified operation with no adjustment or recurring compensation during measurement.

Consisting only of 3 separate parts, the SMD12 is intuitive to handle, set up and store as well as to carry by man.

The SMD12 can be operated with and without data recording using a rugged Windows Mobile PDA via cable or Bluetooth connection. The measurement data can be processed and analyzed with the SENSYS own software MAGNETO®.

Technical Data SMD12

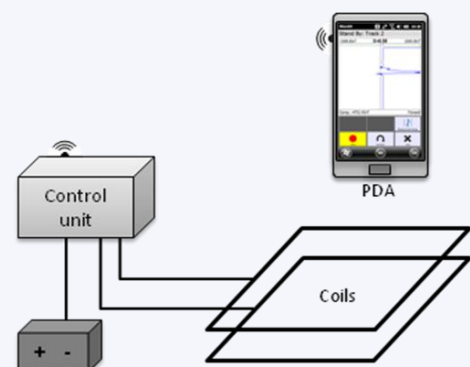
Operating time	approx. 22 hours
Frame	
Type	fold-up, 2-layer frame, 1 x 1 m
Cable coil	2x approx. 4 m coils, integrated into frame
Dimension stored (H/W/D)	115 x 15 x 15 cm
Dimension folded up (H/W/D)	60 x 105 x 105 cm
Weight	3.2 kg
Control Unit	
Operating frequency	approx. 770 pulses per second
Operation modes	3
Sensitivity levels	5
Operating temperature	-20°C to +60 °C
Storage temperature	-30°C to +70 °C
Signalling	built-in acoustic signal with adjustable volume analogue display
Interfaces	2x coil IN 1x power IN 1x audio OUT (headphones) 1x data OUT (digital)
Weight	1.7 kg
Power supply	
Type	re-chargeable 12 V lead-gel battery
Weight (incl. battery belt)	3.3 kg
Protection grade	
Coil	IP65
Control unit	IP65
Transport cases	
Soft bag for coil (H/W/D;weight)	120 x 20 x 20 cm; 2.8 kg
Soft bag for electronics (H/W/D;weight)	120 x 20 x 20 cm; 3.0 kg
Options	
Rugged case (H/W/D;weight)	121 x 43 x 18 cm; 8.5 kg
Rugged PDA	for data recording; Win OS; touch screen; SD card
Bluetooth dongle	for wireless data transfer between control unit and PDA



Battery belt Test body Control unit

Rugged case

Fold-up coil frame



System schematic