

## Application Note

# SBL10 for precise and flexible UXO tasks

UXO detector with data recording on land and shallow waters



### CHALLENGE

More and more UXO companies, military, government and EOD organisations are seeking for UXO detectors that can be handled intuitively. The devices have to be very robust against environmental influences, flexible in their usage, but very precise in ground survey measurements. Therefore, *SENSYS* developed the UXO detector *SBL10* as a

very light weight, compact but high precision detector. While the *SBL10* is tailored for **direct UXO detection** on land, its unique design also allows for **field scans** with **data recording** and **ground surveys in shallow waters**. In order to show the full potential of the *SENSYS* UXO detector, the application note will explain the capabilities of UXO detection for the afore mentioned applications.

### TECH. FEATURES

- Fluxgate gradiometer
- 4 operation modes
- 9 levels of sensitivity
- Compensation filters
- Dynamic range of  $\pm 30,000$  nT
- Analogue display
- Fold-up mechanism
- 3.7 kg operational weight
- MIL connector for data logging
- Intelligent power management
- Rugged transport case/bag

## UXO DETECTION

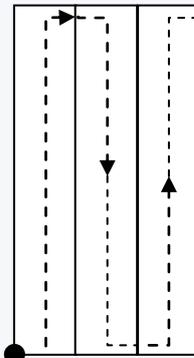
The SBL10 is the outcome of various customers requesting an UXO detector that is light, easy to handle and intuitive to operate. The SBL10 weighs less than four (4) kilograms, comes with an analogue display (needle) and an intelligent power management for operations up to two (2) weeks. The fold-up mechanism makes any assembly work for setup obsolete! With a measurement range of  $\pm 30,000$  nT and 9 levels of sensitivity, the SBL10 is able to get aligned to challenging soils to detect smallest objects in great depths.



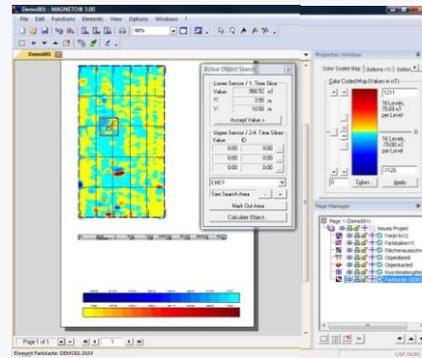
SBL10 folded and compactly stored in robust case

## FIELD SCANS

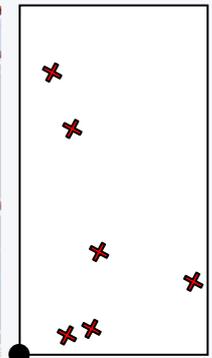
The SBL10 comes with a MIL interface for the datalogger DLM98 that can record lines or whole fields. That allows covering tasks such as documentation of a field survey or splitting detection into steps like scanning, software based object identification and relocating for clearance. If a precise referencing of identified objects is needed, SENSYS provides a high accurate DGPS back pack in order to generate coordinates for the corners of a scanned field as well as taking the list of identified objects and relocate them in the field.



Outline the field, separate in lines, scan zigzag wise



Load all data from field scan, generate magnetic map, identify subjected objects



Take object list, take GPS bag, relocate objects

## SHALLOW WATER SURVEY

If it comes to ground surveys at the waterfront of lakes and rivers, the SBL10 again is the suitable tool for such tasks as the probe is sealed and watertight. That means that the operator is just taking the SBL10 with him while walking in the shallow water. If full underwater and diving operations are required, SENSYS offers different system for these tasks.



SBL10 in use for shallow water survey