Vallon VMH3CS

General description

The VMH3CS Metal Mine Detector has been designed for the highly accurate detection of all types of metallic mines, plastic mines with minimal metal content, bombs, ammunition and other metallic objects in the ground or in shallow water. A round 30 cm or round 60cm search head can additionally be used to locate metal-cased mines and unexploded ordnance at greater depths.

Ease of operation and a robust mechanical design ensure reliable operation for professional clearing in battlefield operations, military training programmes and humanitarian demining. The metal alarm is by audio signal, visual bargraph and vibration alarm.

Along with its digital signal processor, the VMH3CS uses an advanced pulse-field function, specially improved by Vallon. It works in mineralised soils, such as laterite, magnetite and magmatite, as well as in shallow salt and fresh water and under the electromagnetic influence of main power lines without having it’s sensitivity greatly affected.
Data-input allows for further upgrades of the detector firmware, and data-output enables measured data to be evaluated using Vallon EVA2000® software, running on a laptop or a personal computer. The detector can also be connected to the Vallon data loggers.

Main components of the VMH3CS:

1) Detector electronics with integrated arm-rest, non-magnetic loudspeaker, power supply, battery compartment, ON/OFF switch for two different ground conditions and vibrator. Handgrip with visual bargraph (14 elements), four robust push-buttons for sensitivity control, volume control, ground compensation and pinpointing. Two-piece telescopic carrying bar with plug-in connection for search head

2) Watertight oval search head with carrying bar and plug-in connection to the electronics unit

3) Non-magnetic test piece

4) One set (3 EA) single D cell batteries

5) Operation manual

6) Field manual

7) Field backpack for storing the detector set with all accessories

Optional accessories: (available on request)

1) Headset

2) Hard case for storing the complete detector set VMH3CS with all accessories

3) UXO search head (search head with 60 cm diameter) with soft case

4) Universal hard case for storing the complete detector set VMH3CS with all accessories and 60-cm-search head

5) Stick probe

6) Data recording and software

The detector complies with environmental conditions according to MIL STD 810F, 501.4-II, 502.4-I, 502.4-II, 503.4, 506.4-III, 514.5 C1.

**Test and evaluation**

The manufacturer allows access to several available test reports.

The detector was tested by the EC’s Joint Research Centre in Laos in 2004.
The GICHD would like to thank the Government of the Federal Republic of Germany for its generous financial support for this project.

The following test result is available in the "Related Reports & Publications" in the right-hand column:

Systematic Test and Evaluation of Metal Detectors (STEMD).

Most suitable for

**Technical specification**

Protective performance

Model
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