

Transportation

The MINEHOUND VMR3A comes ready-to-use in a transportation case, with the below accessories:

- Four test pieces (mine surrogate)
- Two rechargeable Li-polymer batteries
- Charger for 2 battery blocks
- Mains cable, 2-fold
- Battery compartment for 4 round cells D-size
- 4 x 1.5 V round cells D-size
- Belt for arm-rest
- Carrying belt for detector
- Headset
- Field manual
- Operation manual
- Travel adapter



Technical Data

Measuring principle:	Dual sensor MD + GPR	ON-OFF-Button:	ON, OFF
Weight (ready for operation): with one Li-polymer battery	approx. 4.2 kg	Settings:	N = normal soil M = mineral soil SETUP
Telescopic bar length: grip - search head	52.5 - 92 cm ± 0.5 cm		increase / reduce sensitivity increase / reduce volume soil compensation
Dimensions of search head:	17.9 x 31.5 cm ± 0.5 cm	Operation mode:	MD only GPR only MD and GPR
Power Supply:	Lithium Polymer cells, rechargeable, additional: battery compartment for 4 x 1.5 V, D-cells	LEDs:	MD and GPR
Power consumption:	approx. 5 W	OLED display:	Settings
Operation Temperature:	-31 °C to +63 °C	Sweep speed:	< 1.5 m/sec
Storage Temperature:	-51 °C to +71 °C	Input/Output:	Headset Firmware upgrade
Environmental conditions:	According to MIL STD 810F F501.4-I, II, F502.4-I, II, F503, 4-I, F506.4-III, F512.4-II, F516.5-IV	Metal detector performance	
Soil programmes (MD):	normal soil mineral soil	Power line suppression:	Yes
Waterproof: (with Li-polymer cells)	up to 1.5 m water depth (max. 30 minutes at an ambient temperature of 20 °C)	Demining environmental conditions:	All world
Alarm signal:	audio (volume adjustable) visual, vibration	GPR Performance	
Transport case:	101 x 42 x 17 cm ± 0.5 cm	The GPR detects AP and AT mines in almost all soil conditions, but not in heavy clay (like used for pottery) or salt water.	
Transport weight:	approx. 14 kg		

All technical data are subject to change without prior notice.
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MINEHOUND VMR3A

DUAL SENSOR IED DETECTOR with OLED Display

- Comprising a metal detector and a ground penetrating radar (GPR)
- Detection of metal-free and metal mines and IEDs
- Control elements embedded in the handle
- OLED display for easy operation
- Alarm:
 - visual on bargraph
 - audio signal
 - vibration
- Simultaneous operation of metal detector and GPR possible
- Interface for realtime data transmission



MINEHOUND VMR3A

The MINEHOUND VMR3A is a state-of-the-art dual sensor detector, comprising a high-performance metal detector (MD) produced by Vallon GmbH and a leading-edge ground penetrating radar (GPR) developed by Cobham Technical Services (Cobham, United Kingdom).

An integrated cable interface for realtime data transmission provides data recording and the possibility to change settings from connected external devices. Please contact Vallon for more details.

DUAL SENSOR IED DETECTOR

The GPR responds to even the smallest flush buried mine (diam. > 5 cm), but not to small metal fragments. This means that metallic clutter, which commonly cause false alarms such as bullet casings, small arms rounds and shrapnel, is rejected by the system. The GPR also detects mines with minimum or zero metal contents which are normally difficult to locate using metal detection techniques alone.

The GPR is a timedomain radar transmitting short pulses. A dedicated state of the art DSP processor is used to provide all control and signal processing functions.

MINEHOUND VMR3A is a new technology which requires special training of the operator team before working in a "live" minefield situation.

The integrated OLED display supports the operator, allowing fast and easy settings. Different languages for display are available.



Positions for standing

The MINEHOUND VMR3A is simple to use owing to its OLED display, providing the operator with clear audio signals to alert the presence of a potential mine threat. When a threat is located, the MD audio provides accurate position information and mass of metal indication. The GPR audio provides additional position and depth information, and gauges the radar cross-section of the target. Both detectors can be used separately or together.



Position for kneeling

MINEHOUND VMR3A is switched on by a press button. With the Setup-button the programs for the metal detector programs N (normal soil) and M (conductive soil) are activated. The configurations for MD and GPR are selected with the MODE selector. A headset and an embedded loudspeaker, which can be muted, are also part of the scope of supply.



A push button in the handle allows the operator to select the operation mode MD or GPR or both. LED's MD and GPR indicate which function is operative.

The MD function is the prime search capability and offers a highly sensitive technology to locate even minimum metal mines (such as PMA3 and M14). The operator can set the MD sensitivity. The setting values are served by means of an OLED display.

The GPR is self-calibrating in use by the operator. The GPR mode will give an audio confidence tick every 7.5 sec. to indicate correct operation. If a serious error condition occurs in the GPR or MD, the OLED shows the fault in a clear error message.

The very powerful lithium polymere battery is attached to the electronics unit.



The battery charger can be connected to the mains or to a car battery.



Two batteries can be charged with the charger provided with the kit at the same time. LED-indicators show the actual charging condition of the batteries.

