

## Transportation

The MINEHOUND VMR3G 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 (hand- grip - search head)		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	Sweep speed:	< 1.5 m/sec
Power consumption:	approx. 5 W	Input/Output:	Headset Firmware upgrade
Operation Temperature:	-31 °C to +63 °C	<b>Metal detector performance</b>	
Storage Temperature:	-51 °C to +71 °C	Power line suppression:	Yes
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	Demining environmental conditions:	All world
Soil programmes (MD):	normal soil mineral soil	<b>GPR Performance</b>	
Waterproof: (with Li-polymer cells)	up to 1.5 m water depth (max. 30 minutes at an ambient temperature of 20 °C)	The GPR detects AP and AT mines in almost all soil conditions, but not in heavy clay (like used for pottery) or salt water.	
Alarm signal:	audio (volume adjustable) visual, vibration	<b>NATO-STOCK-Number 6665-12-398-3733</b>	
Transport case:	101 x 42 x 17 cm ± 0.5 cm	All technical data are subject to change without prior notice.	
Transport weight:	approx. 14.4 kg	Issue 05/2016	

# MINEHOUND VMR3G

## DUAL SENSOR IED DETECTOR with Graphic 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
- Easy operation with graphic display
- Alarm:
  - visual on graphic display
  - audio signal
  - vibration
- 3 different operation modes
- Ultra high sensitivity
- Lightweight





## MINEHOUND VMR3G

The MINEHOUND VMR3G 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).

Using high quality and lightweight materials like for example carbon and glass fibre reinforced plastic, makes the unit robust and light at the same time. It has been designed specifically for use in the most challenging military and humanitarian operations. Its capability to detect IEDs makes the VMR3G a perfect choice for many search tasks. Both detection systems (MD + GPR) can be activated separately or together.

The MINEHOUND VMR3G is characterised by its easy-to-read display and clear readings:

- graphic view of the alarms MD and GPR
- graphic view of the GPR parameters
- battery power level
- sensitivity
- language

## DUAL SENSOR IED DETECTOR

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 GPR provides additional information on the objects in the ground.

The GPR is a time-domain radar transmitting short pulses. A dedicated state of the art DSP processor controls the signal generation and processing functions as well as the display.

The GPR detects even mines with minimum or zero metal content which are normally difficult to locate using metal detection techniques alone.

This means that metallic clutter, which commonly cause false alarms such as bullet casings, small arms rounds and shrapnel, is rejected by the system.



Different graphical representation of alarms, either by LEDs or by charts.



Status bar:

- indication of active sensor(s)
- indication of selected soil program
- indication of object filter(s) or environmental influences regarding selected soil program
- indication of battery level
- indication language settings



Individual configuration of the ground penetration radar.

Start point and stop point of the detection range of the GPR, depth gain and surface gain.



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



Individual sensitivity settings and volume settings of metal detector and ground penetrating radar.



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.



Positions for standing



Position for kneeling