



## MINEHOUND VMR2 DUAL SENSOR MINE DETECTOR

MINEHOUND VMR2 is an advanced technology, combining leading-edge ground penetrating radar (GPR) and high-performance metal detector (MD). The unit has been designed specifically for use in the most challenging military and humanitarian demining operations.

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. MINEHOUND VMR2 uses a MD produced by Vallon GmbH (VMH3) and a custom designed 1 GHz GPR designed by Cobham Technical Services (the new trading name of ERA Technology Ltd). The GPR is a time-domain radar transmitting short pulses. A dedicated state of the art DSP processor is used to provide all control and signal processing functions.

MINEHOUND VMR2 is a new technology which requires special training of the operator team before working in a 'live' minefield situation.



Position for standing

Position for kneeling

MINEHOUND VMR2 is simple to use, 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.

MINEHOUND VMR2 is switched on by a rotary control, which also has switch positions for the metal detector programmes N (normal soil) and M (conductive soil) as well as setups for MD and GPR. A headset and an internal loudspeaker, which can be muted, are provided.



A push button in the handle allows the operator to select the operation mode MD or GPR or both.

LED's 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 is observed by means of a LED bar graph 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, the LED bar display flashes.

The highly effective Li-polymer battery is fixed to the bottom of the electronics unit.



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



Two batteries can be charged at the same time (front and rear side of the charger). LED-indicators show the actual charging condition of the batteries.

