



# VMH3 Mine Detector

## COMPACT AND SIMPLE

- Ultra high sensitivity
- Pinpoint mode
- Highly effective automatic ground balance
- Metal alarm: audio, visual and vibration
- Length continuously adjustable
- Input for firmware upgrade



### Technical Data:

#### General:

Power supply:	3 ea. 1.5 V standard batteries D-size or 3 ea. 1.24 V rechargeable battery KR35/62
Battery life:	up to 25 hours depending on battery type and SOIL program
Sweeping speed:	0.2 - 1.5 m/s — standard 0 - 0.2 m/s — pinpointing
Operation temperature:	-31° C to +63° C
Storage temperature:	-51° C to +71° C
Environmental conditions:	According to MIL STD 810F 501.4-II, 502.4-I, 502.4-II, 503.4, 506.4-III, 514.5 C1
Search programs:	2 soil programs (normal, mineralized)
Metal alarm:	acoustic via loudspeaker or earphones visual via LED-bargraph vibration alarm
Power line suppression:	automatic
Presswatertight:	up to 1.5 meters

#### Dimensions:

Search head (oval):	31 x 17 cm ±5 mm
Length of telescopic carrying bar	min. 79 cm ±5 mm max. 139 cm ±5 mm
Transportation case:	approx. 85 x 26 x 33 cm

#### Weights:

Complete detector set during operation (with batteries):	approx. 2.5 kg
Shipping weight with all accessories:	approx. 4.8 kg

All technical data are subject to change without prior notice.  
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## VMH3 MINE DETECTOR

The Vallon VMH3 detector is designed to meet the very specific needs of the mine clearance professionals for humanitarian demining in post conflict areas.

The operating length of the VMH3 can be adjusted even during operation in just a few seconds. The short length for kneeling position meets the special requirements of the professional deminers all over the world.



Its mechanical design ensures a convenient use for hours.

VMH3 is especially recommended in areas with severe laterite conditions or single mineralized stones.

The modern DMPI technology (Digital Magnetic Pulse Induction), and the cable free design is the logical result from close cooperation with humanitarian and commercial mine clearance personnel.

### Setting into operation

The VMH3 requires only minimal operator training.

- Remove the detector from the transport case
- Insert the batteries and select the SOIL program
- SOS - (Switch ON & Search)

Trained operators can start in less than 15 seconds.

### Search head with Telescopic Pole

The rugged search head contains the Digital Pulse Induction Sensor with integrated noise reduction features. The oval shape allows easy operation in difficult and dense vegetation, rocks, shallow water and mud. This unique design provides precise pinpointing and an excellent separation between narrow placed targets without loss of detection speed.

The inner and outer tube of the telescopic pole are protected against twisting. The length of the telescopic pole can be adjusted from 79 cm to 139 cm in just a few seconds.

### Modern Electronics Unit

The ultra modern digital electronics withstands all typical environmental and vibration requirements and meets the MIL STD 810F. It operates with 3 standard batteries (D-size), Alkaline or rechargeable type up to 25 hours.

A splash-waterproof non magnetic loudspeaker is built-in to the electronic compartment.

A non magnetic headset can be connected.

An automatic continuous self check of six important functions including cable damage and battery level control is the life insurance for the deminer. System failures are immediately indicated by a special audio and visual alarm.

The automatic detection level control guarantees a long-term constant sensitivity for hours of operation independent of the battery level, temperature and other environmental conditions.

The front panel contains all controls.

The VMH3 has one mode selector in order to set the main detection features:

- off: OFF
- normal: normal soil
- mineral: mineralized soil



volume control



### Ergonomic Operation



The operation and indication elements are integrated in the hand grip and can easily be operated with the thumb.

The LED-bargraph with 14 elements is clearly visible even in the sunlight. The length of the bargraph proportional to the metal alarm.



A vibration alarm is completing the acoustic and visual alarm.

Fine adjustment of the detector is done by means of the four rigid push buttons:

- : decrease (volume, sensitivity)
- +: increase (volume, sensitivity)
- C: compensation (ground balance)
- ⊕: pinpointing

### Transportation

The VMH3 comes ready-to-work in a transportation case.



### Digital Input

for update of the firmware of the VMH3 respectively to realize your individual requirements.