

Transportation

The VMW1 comes with a small rigid hard case that is resistant to corrosion.



Headset

The headset is non-magnetic and watertight. It can be used as a headphone by wearing it over the ear.

It can also be stored in the pocket of the diver's hood. For this purpose the textile belt can be screwed off from the headset. Both screws are non-magnetic.



Optional Accessories

- Rechargeable batteries, C-size
- Battery charger
- Customized firmware for special applications

Technical Data

Power supply:	3 x 1.5 V standard batteries C-size
Battery life:	approx. 9 hours
Sweeping speed:	0.3 - 1.5 m/s — ashore 0.1 - 1 m/s — underwater
Operation temperature:	-32° C to +63° C
Storage temperature:	-51° C to +71° C
Search programs:	2 soil programs
Power line suppression:	automatic
Presswatertight:	up to 30 m
Alarm signal:	audio, visual
Compliance to environmental conditions:	According to MIL STD 810F 501.4-II, 502.4-I, 502.4-II, 503.4, 506.4-III, 514.5 C1

Dimensions (approx.)	
Detector retracted:	398 x 150 x 70 mm (LxWxH)
Telescopic carrying bar:	min. length: 560 mm max. length: 1265 mm
Hard case:	410 x 320 x 170 mm (LxWxH)

Weights (approx.):	
Complete detector during operation:	
(with batteries) - on land:	approx. 2.7 kg
(with batteries) - in fresh water:	approx. 0.9 kg
Transport weight in hard case:	approx. 5.4 kg

NATO-STOCK-Number 6665-12-372-9198
All technical data are subject to change without prior notice.
Issue 05/2009

Underwater Metal Detector VMW1

The compact Detector for special tasks

- Retracted size only 398 x 150 x 70 mm
- Lightweight
- Highly effective automatic ground compensation
- Metal alarm:
 - visual bargraph
 - audio signal
- Underwater and ashore detection
- Length continuously adjustable
- Diving depth: 30 m



VMW1 UNDERWATER MINE DETECTOR

This new design Vallon Underwater Metal Detector VMW1 is a retractible detector for demining. It is supplied with a small hard case, housing the complete mine detecting set. Its small size and light weight facilitate underwater as well as ashore operations. In spite of the compact design, Vallon made no concessions regarding its detection performance. The VMW1 is offering utmost detection sensitivity and detection reliability. Its state-of-the-art technology as well as its easy operation ensure high equipment dependability.

Search Head with Telescopic Pole

The rugged search head contains the Digital Pulse Induction Sensor with integrated noise reduction features. Its shape allows easy operation in difficult and dense vegetation ashore as well as in shallow or deep water and mud. This unique design allows precise pinpointing and an excellent recognition of targets at small distance to each other without loss of detection speed.

The telescopic pole consists of three tubes. The length is easily adjustable even during operation in just a few seconds so that detection work can be done in a standing, kneeling or swimming position.



Modern Electronics

Detected metals are clearly indicated by

- the non-magnetic headset
- LED bar graph with 14 elements

The operation elements are limited to the following.

Mode Selector:

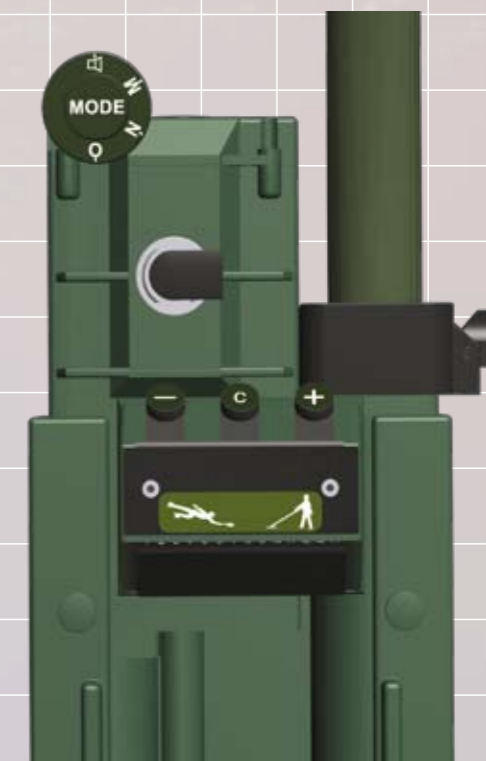
- O:** OFF
- N:** Normal soil
- M:** Mineralized soil
- : Volume control



3 rigid push buttons:

- Decrease sensitivity
- + Increase sensitivity
- C** compensation

A built-in 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.



Setting into Operation

The VMW1 requires only minimum operator training. The transport case contains a field manual.

- Open the case
- Take out the detector
- Insert the batteries
- Pull out the arm rest
- Lift and pull handle
- Adjust the length of the telescopic pole
- Connect headset
- Switch ON and select operation land or water
- Start searching

Trained operators can start in less than 20 seconds.

