



OPTIONAL ACCESSORIES

(not necessary for the basic function)

HARD CASE

The watertight hard case offers safe and convenient transport of the complete set including carrying bag and accessories.



HEADSET

This headphone is very lightweight. Its soft design assures ease of wearing for long periods of time, even under a helmet.



RECHARGEABLE BATTERIES (Ni-MH)

3 ea. 1.24 V rechargeable batteries, C-size

CHARGING SET

Charging station set with car adapter
mains voltage: 100-240 Volts, 50/60 Hz AC
or 12-15 Volts DC

Technical Data

General:

Power supply:	3 ea. 1.5 V standard batteries C-size
Battery life:	up to 10 hours
Sweeping speed:	0.2 - 1.5 m/s — standard 0 - 1.5 m/s — pinpointing
Operation temperature:	-31° C to +63° C
Storage temperature:	-51° C to +71° C
Search programs:	2 soil programs
Power line suppression:	automatic
Watertight:	up to 4 m
Alarm signal:	audio, visual, vibration
Input/output:	RS232, Headset
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:	37 x 14 x 7 cm (L x W x H)
Telescopic carrying bar:	min. length: 54.5 cm max. length: 125.5 cm
Transport bag:	39 x 22 x 12 cm (L x W x H)
Hard case:	41 x 33 x 16.5 cm (L x W x H)

Weights (approx.)

Transport bag:	0.72 kg
Hard case:	2.02 kg
Complete detector during operation: (with batteries)	2.4 kg
Transport weight in transport bag:	3.1 kg
Transport weight in hardcase:	5.4 kg
Headset:	110 g

All technical data are subject to change without prior notice.
All dimensions ±3 %.

NATO-STOCK-Number 6665-12-371-0877

Issue 05/2018

VMC1 Mine Detector

The compact detector for special tasks

- Retracted size only 37 x 14 x 7 cm
- Lightweight
- Pinpoint mode
- Highly effective automatic ground balance
- Length continuously adjustable
- Ease of operation
- Metal alarm:
 - visual bargraph
 - audio signal
 - silent vibration
- Input for firmware upgrade



VMC1 MINE DETECTOR

This new design Vallon Metal Detector VMC1 is a retractable detector for demining. It is supplied with a soft carrying bag housing the complete mine detecting set. Due to its small packing size, it requires extremely little space for transportation and thus facilitates operation areas of difficult access.

In spite of the compact design Vallon made no compromise with regards to the detection capabilities. The VMC1 is a Vallon Metal Detector offering highest detection sensitivity and detection stability.

Its modern technology as well as its simple and easy-to-understand operation elements ensure a high demining reliability. The metal alarms are very clear so that the operator can work without a headset and any external cables.

Search Head with Telescopic Pole

The rugged search head contains a Digital Pulse Induction Sensor with integrated noise reduction. Its elliptical shape allows easy operation in difficult and dense vegetation, rocks, shallow water and mud. This unique design provides precise localization and an excellent distinction between targets placed near to each other, without loss of detection speed.

The three-part telescopic pole is easily adjustable in length within just a few seconds, even during operation so that detection work can be done in standing, kneeling or prone position.




Modern Electronics

- Detected metals are clearly indicated by
- audio signal via a non-magnetic loudspeaker
 - LED bargraph with 14 elements, clearly visible even in the sunlight
 - vibrator to warn the deminer additionally, especially if detection work is done in noisy environment.

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 (volume, sens.)
- +: increase (volume, sens.)
- C: compensation (ground balance)



For pinpointing, there is a separate button in the handle.



Individual alarm combinations can be programmed subsequently by authorized personal.

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 alarm and a special light indication.

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

Setting into Operation

The VMC1 requires only minimal operator training - no assembly, the cable running inside. The transport bag contains a field manual.

- Open the bag
- Take out the detector
- Insert the batteries
- Open the search head
- Pull out the arm rest
- Lift handle
- Adjust the length of the telescopic pole
- Switch ON and search

Trained operators can start in less than 20 seconds.



Transportation

The VMC1 comes in a small soft carrying bag made from synthetic material. It can be fixed to the operator's hip and thigh.



Non-Magnetic Prodder (option)

Weight:	185 g
Needle length:	35.2 cm
Transport length:	37 cm
Diameter handhold:	2.8 cm
Length handhold:	12 cm

