Metal Detector

VMF4-VS20
VMF4-VS25

Compact 4th Generation Metal Detector
with Exchangeable Search Coil

Searching with Excellence

VALLON

VMF4 – Compact Metal Detector

Compact 4th Generation Metal Detector with Exchangeable Search Coil

The foldable VMF4 metal detector has tiny packaging dimensions and offers the same excellent ergonomics as the VMH4 metal detector. It is ideal for both humanitarian demining and military mine clearance. This applies to all soils and shallow waters in a wide variety of conditions.

It demonstrates its outstanding capabilities in detection the detection of improvised explosive devices (IEDs) in particular. This detector is also available with the larger search coil VS25 with a diameter of 25 cm. The combination of mechanical durability, intuitive operation and maximum detection sensitivity leave the user nothing to be desired. Another special feature of this new detector generation is that rechargeable batteries can also be charged right in the device, either with a 110 – 240 V/50 – 60 Hz AC adapter or on a 10 – 30 V vehicle on-board power supply.

The VMF4 metal detector is also available in a longlife version as VMF4L. It offers an increased battery operating time at a slightly higher weight by using four disposable/rechargeable batteries

- ✔ **Ergonomically optimized for long-term operation in the humanitarian demining and military mine clearance**
- ✔ **Foldable metal detector with small packing dimensions**
- ✔ **Flexible application optimization thanks to exchangeable search coils**
- ✔ **Detection of material with low conductivity and wires**
- ✔ **VALLON UXO mode**
- ✔ **Button operated pinpoint function**
- ✔ **Integrated GNSS for automatic and manual storage of waypoints**
- ✔ **Infrared LED display for use with night vision devices and vibration alarm**
- ✔ **Bluetooth® and Wi-Fi interface for cable-free access to the integrated web server**
- ✔ **Also available in a longlife version (VMF4L) with increased battery operating time at slightly higher weight**

Available in the colors olive and sand

Flexible application

The exchangeable search coils allow an easy
and flexible application optimization

Search coil VS20, Ø 20 cm
Search coil VS25, Ø 25 cm

The VS20 and VS25 are the
standard search coils for the
detection of objects with low
metal content.

UXO search coil VS30, Ø 30 cm

UXO search coil VS60, Ø 60 cm

The UXO search coils are suitable for finding submunitions, UXO and larger
metal objects. Basically, the larger the diameter of the search coil, the
greater the maximum detection depth for large objects. For the detection
of smaller objects UXO search coils are therefore of limited use only.

Stick probe VSP4

The extremely thin stick probe is
particularly suited for searching for
metal parts in areas that are difficult
to access (e. g. dense vegetation or
cavities between rocks).

Wireless communication

Bluetooth® and Wi-Fi interface to integrated web server
for device settings and updates

- ✔ **modern browser based user interface for simple operation – from smartphones to desktop computers**

- ✔ **maximum security through password protection**

- ✔ **management and download of saved GNSS waypoints as raw data (Raw) or for viewing in Google Earth (KML)**

- ✔ **firmware update for updating the detector in just a few steps**

VMF4-VS20 – Data Sheet

Technical Data and Features

TECHNICAL DATA

Type	VMF4-VS20	VMF4L-VS20
Sensor	Active search coil Search coil VS20: Ø 20 cm (Ø 7,87 in)	
Alarm signal	Visual (LED)/audio/vibration	
Watertight	IP68 (5 m, 1 h at 20 °C) Search coils (additionally 1 m, 8 h at 20 °C)* *Search coils are suitable for longer detection in shallow waters.*	
Dimensions*	Backpack – Standard: 45 x 28 x 12 cm (17.71 x 11.02 x 4.73 in) Case: 46.5 x 35.5 x 17 cm (18.31 x 13.98 x 6.69 in) *Tolerance ± 3 %*	
Ambient conditions	In accordance with MIL-STD-810G (501.5-I,II, 502.5-I,II, 503.5, 506.4, 512.4, 514.6-C-II, 516.6)	
Ambient temperature	-31°C – + 63°C (-24°F – +145°F)	
Storage temperature	-51°C – +71°C (-60°F – +160°F)	
Weight*	Detector with/without standard battery 2.46 kg (5.42 lbs) / 2.05 kg (4.52 lbs) Basic package – Detector in backpack including standard scope of delivery 3.58 kg (7.89 lbs) Basic package in case 6.33 kg (14.0 lbs) *Tolerance ± 10 %*	Detector with/without standard battery 2.59 kg (5.71 lbs) / 2.05 kg (4.52 lbs) Basic package – Detector in backpack including standard scope of delivery 3.71 kg (8.18 lbs) Basic package in case 6.46 kg (14.24 lbs) *Tolerance ± 10 %*
Disposable/rechargeable battery	3 x Mono LR20 1.5 V alkaline battery – Standard 3 x Mono HR20 1.2 V NiMH rechargeable battery	4 x Mono LR20 1.5 V alkaline battery – Standard 4 x Mono HR20 1.2 V NiMH rechargeable battery
Disposable/rechargeable battery operating time*	Alkaline batteries: About 16 h NiMH rechargeable batteries (10,000 mAh): About 18 h *Ambient temperature of about 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries.*	Alkaline batteries: About 22 h NiMH rechargeable batteries (10,000 mAh): About 25 h *Ambient temperature of about 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries.*

FEATURES

- Internal rechargeable battery
- Exchangeable search coil
- Bluetooth® interface for wireless data transfer
- Wi-Fi for wireless data transfer
- Automatic soil compensation for an effectiv false alarm reduction in mineralized soils
- Integrated webserver for configuration, updates and data exchange
- Integrated GNSS receiver
- Detection of IEDs
- Detection of cables and wires

Subject to changes that serve technical progress.

VMF4-VS25 – Data Sheet
Technical Data and Features

TECHNICAL DATA

Type	VMF4-VS25	VMF4L-VS25
Sensor	Active search coil Search coil VS25: Ø 25 cm (Ø 9.84 in)	
Alarm signal	Visual (LED)/audio/vibration	
Watertight	IP68 (5 m, 1 h at 20 °C) Search coils (additionally 1 m, 8 h at 20 °C)* *Search coils are suitable for longer detection in shallow waters.*	
Dimensions*	Backpack – Standard: 45 x 28 x 12 cm (17.71 x 11.02 x 4.73 in) Case: 46.5 x 35.5 x 17 cm (18.31 x 13.98 x 6.69 in) *Tolerance ± 3 %*	
Ambient conditions	In accordance with MIL-STD-810G (501.5-I,II, 502.5-I,II, 503.5, 506.4, 512.4, 514.6-C-II, 516.6)	
Ambient temperature	-31°C – + 63°C (-24°F – +145°F)	
Storage temperature	-51°C – +71°C (-60°F – +160°F)	
Weight*	Detector with/without standard battery 2.54 kg (5.6 lbs) / 2.13 kg (4.7 lbs) Basic package – Detector in backpack including standard scope of delivery 3.66 kg (8.07 lbs) Basic package in case 6.41 kg (14.13 lbs) *Tolerance ± 10 %*	Detector with/without standard battery 2.67 kg (5.89 lbs) / 2.13 kg (4.7 lbs) Basic package – Detector in backpack including standard scope of delivery 3.79 kg (8.35 lbs) Basic package in case 6.54 kg (14.42 lbs) *Tolerance ± 10 %*
Disposable/ rechargeable battery	3 x Mono LR20 1.5 V alkaline battery – Standard 3 x Mono HR20 1.2 V NiMH rechargeable battery	4 x Mono LR20 1.5 V alkaline battery – Standard 4 x Mono HR20 1.2 V NiMH rechargeable battery
Disposable/rechargeable battery operating time*	Alkaline batteries: About 16 h NiMH rechargeable batteries (10,000 mAh): About 18 h *Ambient temperature of about 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries.*	Alkaline batteries: About 22 h NiMH rechargeable batteries (10,000 mAh): About 25 h *Ambient temperature of about 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries.*

FEATURES

Internal rechargeable battery

Exchangeable search coil

Bluetooth® interface for wireless data transfer

Wi-Fi for wireless data transfer

Automatic soil compensation for an effectiv false alarm reduction in mineralized soils

Integrated webserver for configuration, updates and data exchange

Integrated GNSS receiver

Detection of IEDs

Detection of cables and wires

Subject to changes that serve technical progress.

VMF4-VS20, olive – Scope of delivery

Basic package | VMF4-VS20 (Item No. 2004090000)

Search coil VS20, Ø 20 cm, olive
Item No. 2904090010

Backpack VMF4, olive
Item No. 8904090515

Test piece with adjustment plate for brake screw
Item No. 2909990733

Alkaline battery 1.5 V Mono LR20, 3 ea.
Item No. 5910001006S3

Operation manual VMF4
Item No. 8904090530

Metal Detector VMF4, olive

Field manual VMF4
Item No. 8904090540

Packing sketch VMF4
Item No. 8904090520

Also available in a longlife version as VMF4L-VS20 (Item No. 2004090010)

It offers an increased battery operating time at a slightly higher weight
by using four disposable/rechargeable batteries.

Alkaline battery 1.5 V Mono LR20, 4 ea.
Item No. 5910001006S4

VMF4-VS20, sand – Scope of delivery

Basic package | VMF4-VS20 (Item No. 2004090000SND)

Search coil VS20, Ø 20 cm, sand
Item No. 2904090010SND

Backpack VMF4, sand
Item No. 8904090515SND

Test piece with adjustment plate for brake screw
Item No. 2909990733

Alkaline battery 1.5 V Mono LR20, 3 ea.
Item No. 5910001006S3

Operation manual VMF4
Item No. 8904090530

Field manual VMF4
Item No. 8904090540

Packing sketch VMF4
Item No. 8904090520

Metal Detector VMF4, sand

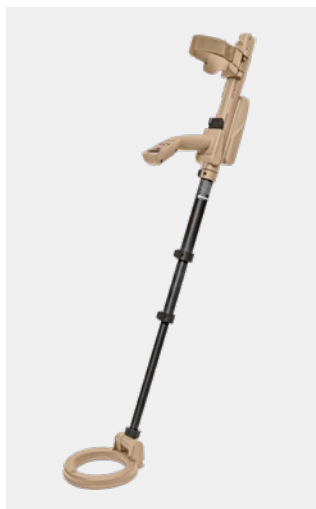## Also available in a longlife version as VMF4L-VS20 (Item No. 2004090010SND)

It offers an increased battery operating time at a slightly higher weight
by using four disposable/rechargeable batteries.

Alkaline battery 1.5 V Mono LR20, 4 ea.
Item No. 5910001006S4

VMF4-VS25, olive – Scope of delivery

Basic package | VMF4-VS25 (Item No. 2004090050)

Search coil VS25, Ø 25 cm, olive
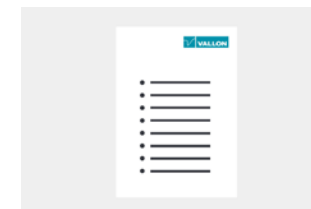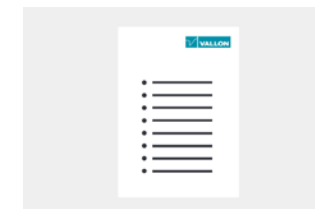Item No. 2904090025

Backpack VMF4, olive
Item No. 8904090515

Test piece with adjustment plate for brake screw
Item No. 2909990733

Alkaline battery 1.5 V Mono LR20, 3 ea.
Item No. 5910001006S3

Operation manual VMF4
Item No. 8904090530

Field manual VMF4
Item No. 8904090540

Packing sketch VMF4
Item No. 8904090520

Metal Detector VMF4, olive

Also available in a longlife version as VMF4L-VS25 (Item No. 2004090020)

It offers an increased battery operating time at a slightly higher weight
by using four disposable/rechargeable batteries.

Alkaline battery 1.5 V Mono LR20, 4 ea.
Item No. 5910001006S4

VMF4-VS25, sand – Scope of delivery

Basic package | VMF4-VS25 (Item No. 2004090050SND)

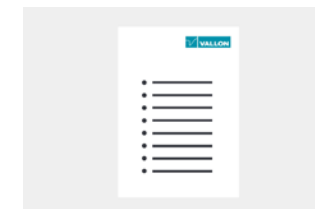**Search coil VS25, Ø 25 cm, sand**
Item No. 2904090025SND

Backpack VMF4, sand
Item No. 8904090515SND

Test piece with adjustment plate for brake screw
Item No. 2909990733

Alkaline battery 1.5 V Mono LR20, 3 ea.
Item No. 5910001006S3

Operation manual VMF4
Item No. 8904090530

Metal Detector VMF4, sand

Field manual VMF4
Item No. 8904090540

Packing sketch VMF4
Item No. 8904090520

Also available in a longlife version as VMF4L-VS25 (Item No. 2004090020SND)

It offers an increased battery operating time at a slightly higher weight
by using four disposable/rechargeable batteries.

Alkaline battery 1.5 V Mono LR20, 4 ea.
Item No. 5910001006S4

Accessories

Metal Detector VMF4

Case VMF4, olive
Item No. 2904090125

Search coil VS20, Ø 20 cm, olive
Item No. 2904090010

Search coil VS25, Ø 25 cm, olive
Item No. 2904090025

UXO search coil VS30, Ø 30 cm, olive
Item No. 2904090200

Bag UXO search coil VS30, olive
Item No. 8904090890

UXO search coil VS60, Ø 60 cm, olive
Item No. 2904090210

Bag UXO search coil VS60, olive
Item No. 8904091330

Case VMF4, sand
Item No. 2904090125SND

Search coil VS20, Ø 20 cm, sand
Item No. 2904090010SND

Search coil VS25, Ø 25 cm, sand
Item No. 2904090025SND

UXO search coil VS30, Ø 30 cm, sand
Item No. 2904090200SND

Bag UXO search coil VS30, sand
Item No. 8904090890SND

UXO search coil VS60, Ø 60 cm, sand
Item No. 2904090210SND

Bag UXO search coil large, sand
Item No. 702360002SND

Stick probe VSP4
Item No. 2904090230

Accessories

Metal Detector VMF4

**Headphone single-sided
VMF4/VMH4/VMC4**
Item No. 2904090480

**Headphone single-sided with cover
for the second ear VMF4/VMH4/VMC4**
Item No. 2904090450

**On-ear headphone single-sided
VMF4/VMH4/VMC4**
Item No. 2904090090

Data cable VMF4/VMH4/VMC4
Item No. 5110307076

Charging cable VMF4/VMH4/VMC4
Item No. 2504090071

**Power supply adapter 100-240V
including travel adapter AUS/UK/US**
Item No. 2905001067

**External battery charger
100-240V/50-60Hz, 12V**
Item No. 2909990847

Alkaline battery 1.5 V Mono LR20
Item No. 5910001006

**Rechargable battery NiMH 1,2 V
Mono HR20/10.000 mAh**
Item No. 5920001006

VALLON – A strong Partner

Experience is irreplaceable

As a family-run business from Eningen in Germany we became a global player within the field of explosive ordnance detection and the assessment of contaminated sites. All our activities focus on providing our customers with the best product for the respective application.

✓ GUIDANCE

From the initial contact to the selection of the optimal detector system and to the point of the professional start of operation – VALLON accompanies the complete process and supports you in a competent and professional manner.

✓ DETECTORS

Our product portfolio includes efficient solutions for detecting mines, improvised explosive devices (IEDs) and unexploded ordnance (UXO) – for the use on land, underwater and in boreholes.
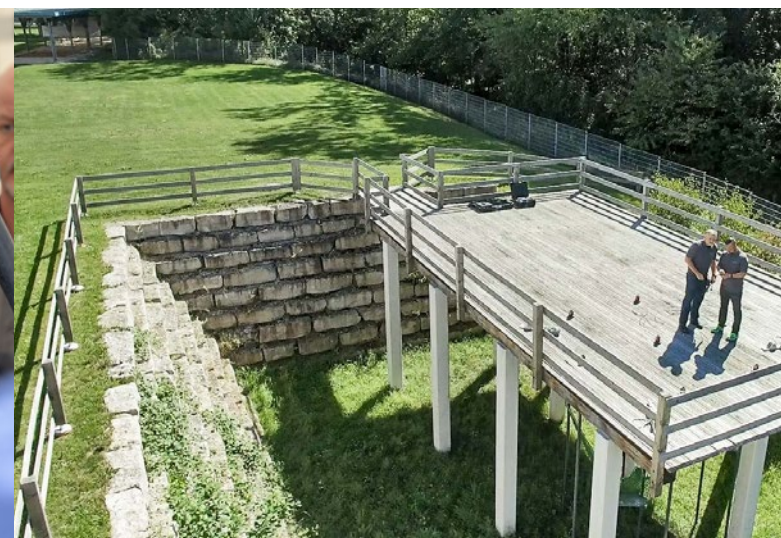
✓ SOFTWARE

With the EVA4mobile® and the EVA4ALL® VALLON offers powerful software for data acquisition, evaluation and documentation. The firmware of VALLONs fourth generation of metal detectors is subject to continuous further development and can be adapted to satisfy specific customer requirements.

✓ TRAINING

In order to optimally prepare the user for their daily work VALLON offers custom-tailored training. The training courses can take place upon agreement on site or directly at VALLON in Eningen, Germany.

THE PATH TO BECOMING A GLOBAL PLAYER

Since 2016, VALLON has impressed customers with improved generations of its innovative developments. The new benefits include lower weight and greater compactness for easier transport and simpler firmware upgrades that now enable customer-specific application optimization.

Learn more under
www.vallon.de/en/history

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