

Metal Detector

 [vallon.de](http://vallon.de)

# VMX10

Large Loop Metal Detector  
for Detecting UXO



*Searching with Excellence*



# VMX10 – Metal Detector

## Large Loop Metal Detector for Detecting UXO

The VMX10 large loop metal detector is a flexible system for locating unexploded ordnance. The size of the VMX10 search coil can be configured based on various object and search requirements, e. g. 1 x 1 m, 2 x 1 m or 2 x 2 m. The detection properties depend on the coil configuration here.

The ergonomics of the electronics unit have been developed specifically for high comfort and long work days. The built-in multi language OLED display is also extremely user-friendly. Green LEDs insure best visibility in bright daylight conditions.

The selection of 14 delay-steps ensures a higher detection reliability through the suppression of interference e. g. by small clutter.

In addition, the user can choose between 40 operating channels to suppress environmental factors such as other detectors of the same type. As a result, the VMX10 offers optimal conditions for smooth searching. Thanks to the integrated soil compensation feature, this applies both to heavily mineralized and magnetic soils

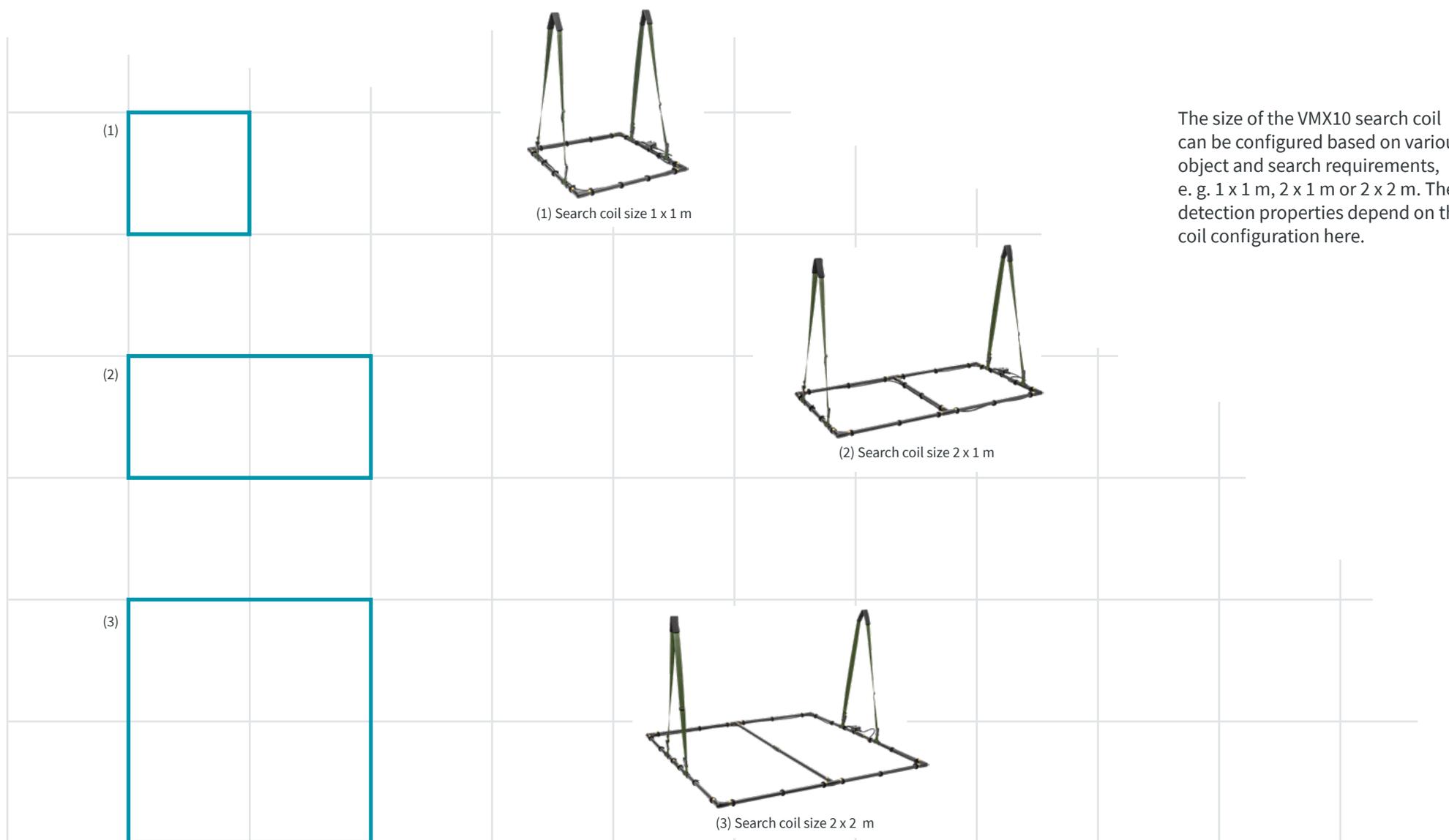
The VMX10 allows for operation using a rechargeable battery or optional 4 D-size batteries.

- ✓ Standard configuration with 1 x 1 m, 2 x 1 m or 2 x 2 m coil sizes
- ✓ Ergonomic electronics unit with OLED display
- ✓ Highly efficient soil compensation
- ✓ Works on strongly mineralized soils
- ✓ Selection of 14 delay-steps for suppression of interfering factors
- ✓ Interface for data-logging with optional available VALLON hard- and software
- ✓ Optional wheeled carrier for one-man operation



# VMX10 – Metal Detector

## Variable search coil size



The size of the VMX10 search coil can be configured based on various object and search requirements, e. g. 1 x 1 m, 2 x 1 m or 2 x 2 m. The detection properties depend on the coil configuration here.

# VMX10 – Data Sheet

## Technical Data and Features

### TECHNICAL DATA

<b>Sensor</b>	Active search coil 1 x 1 m (3.28 x 3.28 ft) 2 x 1 m (6.56 x 3.28 ft) 2 x 2 m (6.56 x 6.56 ft)
<b>Alarm signal</b>	Visual (LED) / Audio
<b>Watertight</b>	IP68, 1 m (1 h at 20°C)
<b>Dimensions*</b>	Case: 112.5 x 41 x 35.5 cm (44.29 x 16.14 x 13.97 in) <i>*Tolerance ± 3 %</i>
<b>Ambient temperature</b>	-31°C – +63°C (-24°F – +145°F)
<b>Storage temperature</b>	-51°C – +71°C (-60°F – +160°F)
<b>Weight*</b>	Control unit with VAP3 rechargeable battery pack – Standard 1.28 kg (2.82 lbs) Control unit with/without standard battery 1.71 kg (3.77 lbs) / 0.82 kg (1.80 lbs) Search coil with shoulder harness and connecting cable 1 x 1 m: 3.47 kg (7.65 lbs) 2 x 1 m: 4.53 kg (9.98 lbs) 2 x 2 m: 5.20 kg (11.46 lbs) Basic package – Detector in case including standard scope of delivery: 22.4 kg (49.4 lbs) <i>*Tolerance ± 10 %</i>
<b>Disposable/ rechargeable battery</b>	1 x VAP3 7.4 V/5.4 Ah lithium polymer rechargeable battery – Standard 4 x Mono LR20 1.5 V alkaline battery 4 x Mono HR20 1.2 V NiMH rechargeable battery
<b>Disposable/rechargeable battery operating time*</b>	VAP3 lithium polymer rechargeable battery: About 8 h – 22 h Alkaline batteries: About 4 – 38 h NiMH rechargeable batteries (10,000 mAh): About 12 – 38 h <i>*Ambient temperature of about 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries, VAP3 – Depending on pulse strength.</i>

*Subject to changes that serve technical progress.*

### FEATURES



Exchangeable search coil



Bluetooth® interface for  
wireless data transfer



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

# Scope of Delivery VMX10

Basic package | Item No. 2003220010



Metal Detector VMX10



Case VMX10  
Item No. 2903220190



Carrier system VMX10  
Item No. 2903220200



Control unit VMX10  
Item No. 2903220170



Belt control unit VMX10  
Item No. 8903220450



Neck strap control unit VMX10  
Item No. 8702010003



Detection cable VMX10  
Item No. 2903220181



Connection cable control unit VMX10  
Item No. 2503220040



Hand strap search head VMX10  
Item No. 8903220250



Shoulder strap search coil VMX10  
Item No. 8903220380



Bag for small parts VMX10  
Item No. 9150005036



Velcro fastening tape  
Item No. 9140003034



Velcro tape 20 cm  
Item No. 9140003031



Headphone VMX10  
Item No. 2903220270



Rechargeable battery block VAP3  
Ambient temperature: -31°C – +63°C  
Storage temperature: -20°C – +35°C\*  
Item No. 2902830035



Battery compartment VBH10  
Item No. 2902830066



Battery charger VAP3  
Item No. 2902830018



Power adapter for battery charger  
VAP3  
Item No. 2902440126



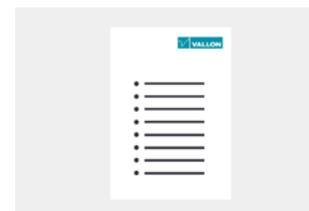
Charging cable for 12V/24V  
vehicle plug socket  
Item No. 2502440006



Universal power plug adapter  
Item No. 9150006102



Alkaline battery 1.5 V Mono LR20,  
4 ea.  
Item No. 910001006S4



Operation manual VMX10  
Item No. 8903220310



Field manual VMX10  
Item No. 8903220320

\*Attention: Storage for 6 months

# Accessories

## Metal Detector VMX10



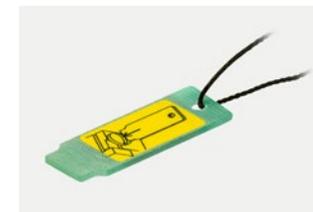
VMXV1 - Wheeled Carrier  
Item No. 2903220510Z



Case electronics VMX10  
Item No. 2903220420



Buckle for hand and shoulder strap  
VMX10  
Item No. 8903220390



Alkaline battery 1.5 V Mono LR20  
Item No. 5910001006

Data Acquisition  
and Evaluation



**EVA4mobile®**  
Integrated License



EVA4mobile® - Integrated license  
in combination with field computer  
VFC4.1  
Item No. 2405350010



VFC4.1 - Small Field Computer  
for EVA4mobile®  
Item No. 2005350001

**EVA4mobile®**  
Bluetooth® Beacon



EVA4mobile® - Bluetooth® Beacon  
for temporary license activation  
Item No. 2009080000

**EVA4ALL®**



EVA4ALL® - Evaluation Software  
for Surface and Borehole Survey  
Item No. 2009090000

# 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.

### ✓ SOFTWARE

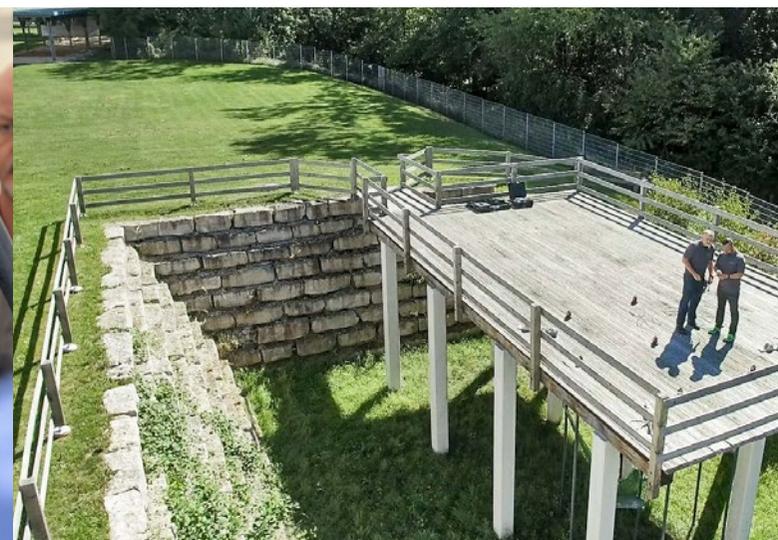
With the EVA4mobile® and the EVA4ALL® VALLON offers powerful software for data acquisition, evaluation and documentation. The firmware of VALLONs fourth generation of metal detectors is subject to continuous further development and can be adapted to satisfy specific customer requirements.

### ✓ 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.

### ✓ 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 2014, 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](http://www.vallon.de/en/history)



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