

## Scope of Supply (Photos available on request)

### 1) Ferrous Locator VX1 "SURFACE" 2003170000

- 1 control unit VX1 2903170040
- 1 carrying bar VX1 2903170030
- 1 probe digital VSM "medium" 2909990674
- 1 carrying belt VX1 8903170820
- 1 headset VX1 2903170320
- 1 backpack VX1 8903170610
- 4 single cell batteries 1.5 V 5910001006
- 1 hard case VX1 2903170410

### 2) Carrying Frame VXP3 2902560013

- 1 non-magnetic frame from glassfibre compound components for holding
- 3 sensor tubes mounted at a distance of 0.5 m
- 1 GPS Antenna mast 2909990461
- 1 Holder GPS receiver 2909990623
- 1 Holder VFC2 2902200059
- 1 Carrying belt 2902560010
- 3 Holder for sensor tube 2902560005

### 3) Accessories

- 2 Probe digital VSM "medium" 2909990674
- 2 Data bus intermediate socket 2902500054
- 1 Data bus end socket 2902500006
- 1 Data bus cable 2 m 2502500009
- 1 Docking station 2903170500
- 1 Set power supply 2902200220
  - 1 Rechargeable battery pack (12 V/10 Ah) with fixing clamp 2902200219
  - 1 Charger 230 V (50 Hz/12 V DC) with mains cable 2909990472
  - 1 Power cable 2502170074
- 1 Bluetooth® RS232 adapter 2809990079
- 1 Protective cover for GPS 8809990005
- 1 Metal case to store the sensor tubes 2802500002

### 4) Field Computer VFC2 for VX1 2002170206

- 1 PDA with firmware for data recording with navigation aid, in-built rechargeable battery 3Ah, data data input via RS232 and Bluetooth, stylus pen 2909990643
- 1 Data cable VFC2-VCU2/EL130xx 2502540003
- 1 VFC2 Holder "Clickmount" 9150006049
- 2 Hex socket countersunk screw 7090186008
- 1 PDA mount 2903170230
- 1 Belt for fixing to the operator's wrist 2809990063
- 1 Connection cable VFC2-Sensor 2503170060
- 1 Charger 100-240 V AC (mains) 9190006016
- 1 Charging cable 12 V (car battery) 9190006015
- 1 Connection cable VFC2-PC 9190006018
- 1 Hard case 8902170201
- 1 USB Memory stick with cable 2902170023
- 1 Connection cable VFC2-USB Stick 9190006027
- 1 Allen Key 9150006001

### 5) GPS NovAtel FlexPak6™ kplt. 2909990890 (Option)

- 1 OEM628-D2L-00G-0PG-0XN + FlexPak6-Housing, Glonass Correct PPP
- 1 GPS-702-GGL PINWHEEL-antenna 9150006150
- 1 Antenna cable 1 m 9150006130
- 1 Antenna cable 3 m 9150006287
- 1 Transportation case 2909990900
- 1 Terrastar C-Subscription
- 1 Installation

### Optional Accessories:

- Evaluation Software Vallon EVA2000® 2.X  
Module Data Exchange 2009030101  
Module Surface 2009030102  
Module GPS 2009030104

# MULTICHANNEL CARRYING SYSTEM VXP3



- Time-saving ground survey
- Portable and lightweight
- 3 Ferrous sensors Vallon VSM
- PDA Data logger VFC2
- Navigation aid (option)
- Georeferenced data acquisition (option)

All technical data are subject to change without prior notice, issue 07/2016

## MULTICHANNEL CARRYING SYSTEM VXP3

Land survey with 3 sensors via electronic of VX1

- Non-magnetic frame
- Distance between ferrous sensors: 0.5m (3 sensors)
- Alignment-free sensor tubes
- Data output for computer-aided data survey via RS232 or Bluetooth connection
- Powers supply: rechargeable battery pack
- GPS (optional)
- Data evaluation with software vallon EVA2000® 2.x (optional)

The non-magnetic carrying system VXP3 is the appropriate sensor platform for ground survey of medium sized areas which do not allow the use of a sensor vehicle (unevenness of the ground etc.)

Based on the Vallon Ferrous Locator VX1 plus additional accessories you can build a sensor system with three sensor tubes. For this purpose the sensor of the VX1 and the VX1 electronics are integrated into the multichannel carrying system VXP3. Please contact us to find an optimal solution for your requirements.

The VXP3 allows detecting of ferrous objects like non-exploded bombs (UXO) and grenades. Up to three sensor tubes (fluxgate) are mounted to a portable non-magnetic support frame.

For data acquisition the 3 sensor tubes are connected via data bus to the VX1 electronics which is mounted on a docking station. The survey data are transmitted to the Field Computer VFC2 (ruggedized, weatherproof PDA\* with Vallon-firmware).

The display of the field computer VFC2 shows the nT-values of the tracks covered in real time, or, if a navigation system is used, it serves also as control whether all points of the surface in question have been covered.

The evaluation of the recorded data is done with a PC using the software Vallon EVA2000® 2.X. For more details please refer to the data sheet of software Vallon EVA2000® 2.X



VX1 control unit

VSM sensor

power supply for 3 sensors

## Navigation (Option)

For georeferenced data recordings, the data logger VFC2 requires information about the exact position of the sensors.

The most comfortable way of navigation is the use of a Satellite-Navigation-System (GPS). The GPS antenna is attached to the centre of the frame, and supplies the exact coordinates to the Field Computer VFC2 via bluetooth® transmission. GPS-coordinates and nT-values are stored together.

Vallon GmbH offers the system NovAtel FlexPak6™. This is a wide area GPS augmentation system that provides high performance positioning for the land based user. Outstanding features of the NovAtel FlexPak6™ receiver:

- Capable of tracking all present and upcoming GNSS constellations and satellite signals including GPS L1/L2/L2C/L5, GLONASS L1/L2, Galileo E1/E5a/E5b/Alt-BOC and Compass signals, the NovAtel FlexPak6™ ensures high performance GNSS positioning now and in the future.
- horizontal < 10 cm, vertical < 15cm



GPS antenna

- Compact, lightweight and easy to integrate
- Shock resistant
- accuracy in HP-mode: standard deviations

For more details please refer to the data sheet of NovAtel FlexPak6™.

## Data Acquisition



Preparation

Simple menus for setting the parameters with a stylus.



Data Acquisition

During data acquisition, the screen can switched over to a navigation aid which visualizes the scanned tracks.

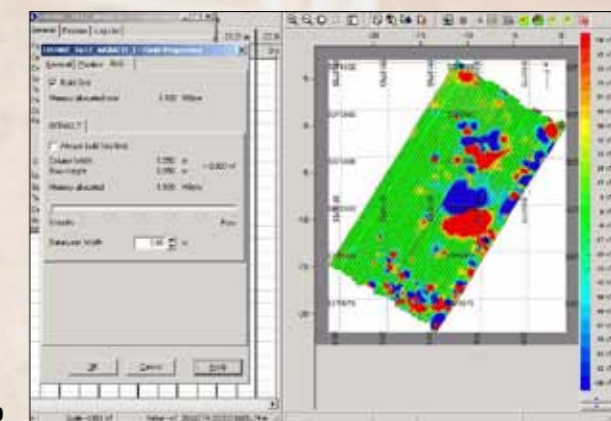


Result

The typical functions required for data acquisition are entered via the rigid push buttons of the VFC2.

## Evaluation Software (Option)

The evaluation of the recorded data is done with a PC using the software Vallon EVA2000® 2.X. The automatic object evaluation is very useful, allowing time-saving survey of large areas.



recorded colour map

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FlexPak6™ - registered trademark of NovAtel Inc.

\*) PDA = personal digital assistant