FS - Future Series®

The new eXp 5000 - a faster generation!

Easy menu navigation
High performance- processor
Precise sensors
Large memory
Exact GPS integration
Easy handling

eXp 5000

Integrated technology:

- Optimal device for professional treasure hunters, archaeologists and ground research companies
- Penetration depth up to 25 meters
- Detection of metals, cavities, gold and buried objects like e.g. boxes, tanks, chests, vases and others
- Discrimination of metals and precious metals
- GPS navigation can be switched on/off
- optimal menu navigation
- higher data storage capacity
- Groundscan with Livestream sensor possible
- larger scan areas can be recorded
- automatic antenna identification

Scope of delivery / optional equipment:

	basic	professional
Control unit	●	●
Joystick	●	●
GPS receiver with cable	●	●
External power supply with charger and cable	●	●
Linkage and carrying strap	●	●
GPR-antenna (50cm)	●	●
Video eyewear with headphones	●	●
Software “Visualizer 3D”	●	●
Manual	●	●
Carrying case	●	●
GPR-antenna (25cm)	○	●
GPR-antenna (75cm)	○	●
GPR-antenna (100cm)	○	●
Super sensor	○	●
Antenna for tunnel detection	○	●
Antenna for metal discrimination	○	●
Livestream sensor	○	●
FS-Thermoscan for eXp 5000	○	●
VLF emitter (4 pieces)	○	●

● included
○ optional, for additional charge

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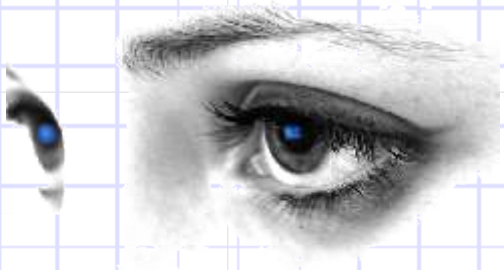
eXp 5000

Operating Modes

Magnetometer

With an integrated magnetometer you can research the ground by using the magnetic field of the earth. This mode is very usefull to locate easily small metallic objects like coins, rings etc. which are situated near to the surface. The maximal penetration depth in this mode is about 2 meters.



Ground Scan

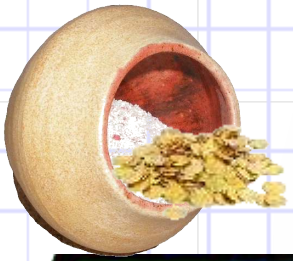
The Ground Scan can be adjusted individually and can create a visual representation of the measured data. Max. 100 different graphical representations can be stored in the internal memory. In this mode the eXp 5000 calculates a complete scan image of the underground structure in 3d and can additionally store GPS data. The detection of voids and targets up to a depth of 25 meters is possible, as well as the determination of position and depth of located objects. Due to the automatic sensor identification and storage of the time and date of each scan, all measured data can be analysed accurately. New feature: Usage of livestream sensor in Ground Scan mode for 4x better resolution.

Metal Detector

In this operating mode a powerfull metal detector can be connected and so discriminate between different types of metal. This detector is optional to the basic package. A discrimination of iron, gold, silver and aluminium is possible up to a depth of 2 meters.

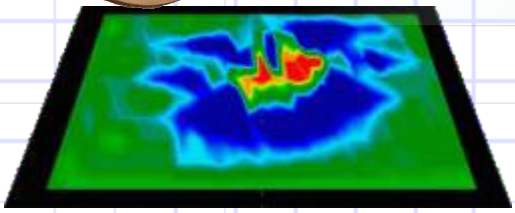
Discrimination

By using the Supersensor it is possible to distinguish between precious and nonprecious metals as well as cavities. The metal discrimination is possible up to a depth of 25 meters.



Thermoscan

By the help of FS-Thermoscan differences in temperature on the surface of the ground can be located. So warm and cold areas can be determined and it is possible to conclude to conclude to voids and other anomalies.



Livestream

The Livescan shows the image of the underground in real time. The scan width (horizontal) is 50 cm. By using the Livestream sensor metals and voids up to 25 meters become visible.

eXp 5000 - Accessories

GPR probes (25cm, 50cm, 75cm, 100cm)

These horizontal gpr antennas can be used for measurement in different areas to locate metals, voids, water or underwater. They are used in the Ground Scan mode to receive a 3d image of the underground. The gpr antenna 25cm is specially interesting for searchers who have to scan areas with difficult access. This smallest antenna is used for detailed research, to detect small objects.

The larger gpr antennas of 75 and 100 cm are used to scan large areas, to get a fast overview about the complete terrain.

DDV system

The DDV system is a visual detector system to discriminate between different type of metals. So it is possible to find out if there is iron, gold, silver or alumium under the ground. This metal detector is important to avoid digging e.g. for nonprecious metals.

The metal detector find the targets and give the information via a audible sound over the headphones and also visually via the video goggles.

Antenna for tunnel detection

This antenna is a high resolution sensor which is specially optimized on the research and detection of hidden voids like tunnels, rooms, chests, tombs, graves and others. You can receive a 3d underground image with this antenna, where voids are represented in particulary and with high resolution. The antenna for tunnel detection is a must for all seekers who wants to look for cavities, bunkers, tunnel systems, tombs and graves, treasure chambers, chests, boxes or non-metallic targets like vases or hollow-ware.

Supersensor

The Super sensor can be used for high resolution ground scans (3d images) and for discriminating between ferrous (e.g. iron, steel) and nonferrous metals (e.g. gold, silver) in high depth. It is specialized on detecting precious metals and can locate small sized metals deeper than the gpr antennas. The Super sensor is an absolute must for all professional treasure seekers and gold prospectors.

Livestreamsensor

The livestream sensor allows the searcher to see live into the ground.All burried objects, voids and underground anomalies are visible in real time via the video goggles while walking over the ground.

Thermoscan

The Thermoscan is a long range device which recognize differences of temperatures on the surface of the ground. Due to this infrared measurement it is possible to locate voids like treasure chambers or caves under the ground.

VLF Emitter

The VLF emitters can be placed on each corner of your scan area to improve the measured results and increase the depth. So it is possible to locate small metals deeper under the ground than without these emitters. Additionally this system improves your scan result. All located metals under the ground will be visible more clearly in the three-dimensional graphic.

Super sensor

Characteristics

The Super Sensor is a specialized antenna which offers professional metal detection features. Small metallic targets such as gold nuggets, coins, rings, jewelry and other valuable metallic objects hidden under the ground can be found easily with this antenna. Also it is very suitable to detect larger objects like boxes, bunkers, pipes, chests, gold or silver bars and other metallic masses which are buried deep under the surface or which are difficult to locate with standard GPR antennas.

Because of its integrated sensor technology it offers high resolution scans also in hard soils or mineralised areas.

The Super sensor is a 1m vertical probe, which makes it easy to work in areas with difficult access and uneven grounds.

In addition, the Super sensor (if used together with Visualizer 3d software) has an integrated discrimination possibility to discriminate ferrous and nonferrous metals up to the incredible depth of 25 meters. No other metal detector can keep up with the Super Sensors depth penetration. A discrimination control prevents the user from digging out undesirable items like nails, cans or other trash.

Features:

- Detects metals and voids up to 25 m depth
- High resolution scans
- Specialized on detection of metallic targets
- Discrimination possibility of ferrous metals, non-ferrous metals and cavities up to 25 m depth in combination with Visualizer 3d Software
- Lightweight
- Easy, comfortable handling
- Measures 100 x 10 x 10 cm
- 2 years warranty

The Super sensor is optional available to many OKM devices.

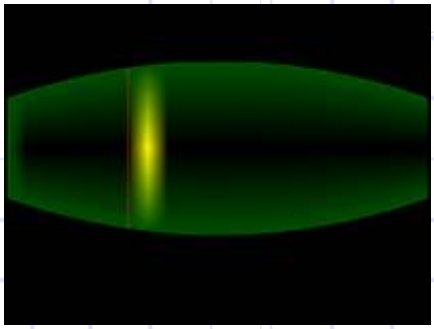
DDV system

Characteristics

With the DDV System a powerful metal detector is at your disposal, which supports your research for hidden targets. This additional equipment is designed to meet all requirements of a professional treasure hunter.

The detector locates both ferrous and nonferrous metals but is mainly used to find small pieces of metal which are located near to the surface, such as coins, rings, nuggets and others.

Due to this metal detector you can not only find buried items, you can even find out about the type of material of which a buried target is made off. Because of the adjustable regulator on the small control unit of the detector itself, it is possible to select the type of metal, on which the detector should react. So for example you can adjust the detector to show only silver targets and to filter out e.g. iron. Materials like iron, gold, silver and aluminium can be selected.



By using the sensibility regulator the detector can be adapted to the current ground conditions and optimised to reach high depth penetration also in difficult soils.

The DDV System can only be used together with the devices Localizer 3000, eXp 4000 and eXp 5000 as an optional upgrade. The detector system has to be connected to your measuring instrument to get an audible and visual representation through your device. Besides sending out an acoustical signal via the headphones, you will also see a visual representation on the display of your measuring instrument (minimonitor / video eyeglasses) when passing over a target.

The DDV System needs no additional battery, it gets his power from the connected measuring instrument.

This lightweight but powerful DDV system is a must for all treasure hunters.

FS-Thermoscan

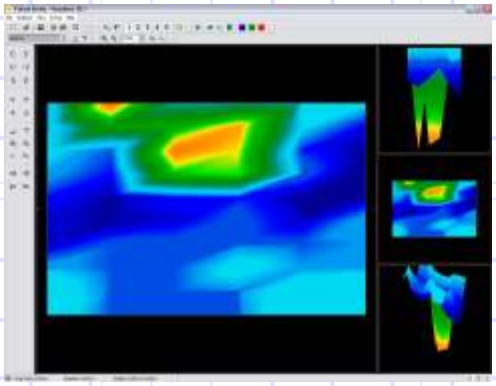
The Thermoscan can be used as a stand-alone unit or in combination with the eXp 5000.

Characteristics

The Thermoscan stands up for its easy usage and compact design. Create high resolution 3d graphics of the underground by measuring the differences in temperature on the surface of the ground.

Advantages:

- If connected to the eXp 5000 clear high quality thermographic scans of the inspected terrain
- Representation of cavities like graves, tombs, tunnels, caves, chests, bunkers etc.
- Integrated laserpointer for selective pinpointing
- measurement of differences in temperature in areas with difficult access like e.g. forest or hillside situation



VLF emitters

General Description

VLF is the shortcut for "Very Low Frequency"; which is a low wave frequency range. Usual VLF (Emitter) devices use a frequency in this range to send out a alternating magnetic field in the ground, which can be disturbed by a metallic target. This disturbance of the magnetic field can be analysed in detail and so it is possible to make a conclusion to targets situated under the ground.

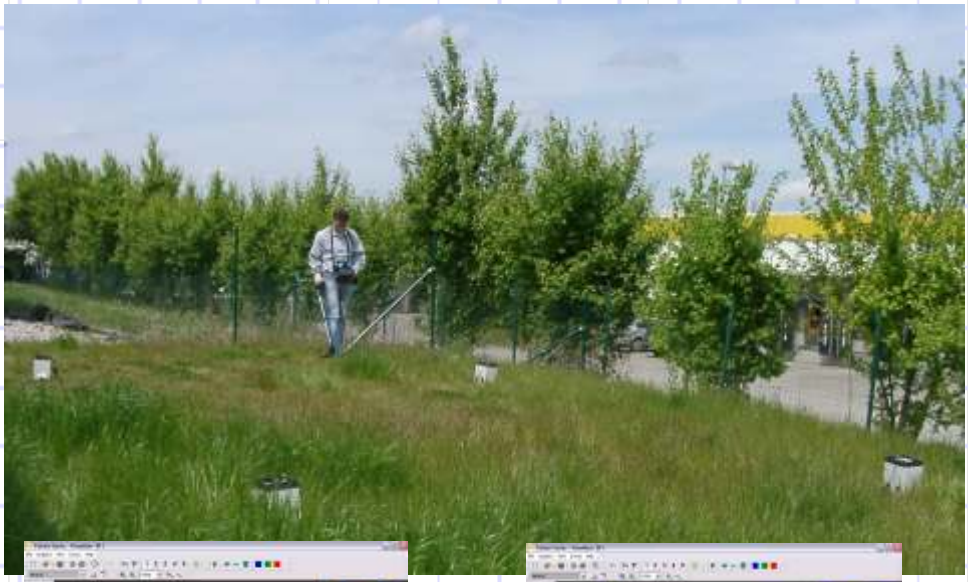
Advantages of the usage with FS Future Series®

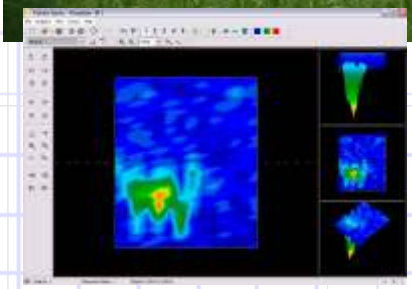
VLF emitters are optional components which can be used to optimise a measurement with FS Future Series instruments. VLF emitters sent out very low frequencies to reinforce the magnetic field of buried objects. Because of this amplification anomalies of the underground like metallic targets (gold, silver, copper etc.) becomes better visible.

The 3d image of the underground becomes more clearly than without using the VLF emitters. So you can better recognize the shape and structure of buried metals.

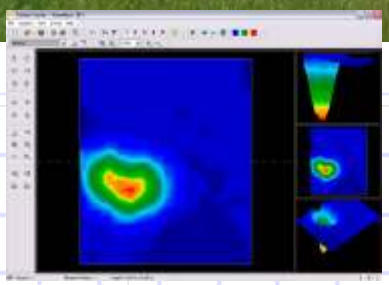
Usage

One set VLF emitters consists of 4 units which have to be placed on the ground, in every corner of your measuring area. Remove the antenna of every VLF emitter and place it on the ground in a distance of about 50 cm from the main unit. Adjust every emitter to your current ground conditions and power it on. Now measure your area with a FS Future Series device in operating mode Ground Scan like usual.





The figure on the left side shows a located metallic target without using VLF emitters. The structure of the object is destroyed and not very accurate.



The figure on the right side shows the same measurement while using VLF emitters. The shape of the located target looks much clearer, also the background is straightened.