

# Metal Detectors AKA

*Professional, computerized, highly sensitive selective metal detectors*

*Designed to search for and identify metal objects in the dielectric (dry sand, wood) and low conducting (soil, brick walls) media*

## Signum MFT 7272M

*an eddy current selective metal detector that works on induction balance principle*

Device uses the original technology of signal processing sensor-technology space and harmonic filtering (SFT), minimizing the hindering effect of ferrous soil (salinity) and, thereby, increasing the reliability of the identification of deep and small objects. Software and hardware unit allows it to initiate and process signals in the range from 1 to 30 kHz. Signum allows working in water depths of up to 15 meters, without submerging the control box.



### Main distinctive features

- unique algorithm to identify flat iron objects (S-algorithm)
- the multi-frequency technology (MFT) allows the use of different any search coils regardless of their operating frequency (Hz). That is, the device itself will make adjustments and calibrate to the selected coil
- static mode of operation to pinpoint the exact location of the detected object
- mode TURBO - high coil current mode, which is used to improve response from good signals at depth.
- unique option to suppress indication of "hot rocks" without discrimination

### Technical Specifications:

Maximum detection range of metal objects	60 cm or 23.5 in - coin Ø 25 mm; 150 cm or 59 in - large objects
Display modes	audio, 5 modes (RT, RT-M, RT-ST, RTL-ST, STP); visual (LCD display with resolution of 128x64 pixels)
Search modes	all metals; sectored discrimination with 2° step
Operation time	up to 18 hours in normal mode, 6-7 hours in TURBO mode, up to 40 hours in economy mode



## Sorex PRO 7281

*selective eddy current metal detector with equalized induction transducer (searchcoil)*

Metal detector has several switchable main algorithms of signal processing which allows adjustment for various search conditions: from trashy areas to deep search of single targets. The device equipped with 15DD-3kHz searchcoil may detect soldier's helmet down to 1.4 m.

### Main distinctive features

- multi-frequency technology (MFT)
- switch option for the so-called searchcoil signal main algorithm (MA) processing. This option provides better customization to search conditions and increases target identification reliability
- ability to process signals with three independent algorithms (MSF, SSF, M/T)

### Technical Specifications:

Maximum detection range of metal objects	47 cm - coin Ø25 mm (brass);
Operating frequency range	from 1 to 22 kHz
Operation time	4 batteries 2800 mAh type AA (1.2V) - 20-40 hours; 4 batteries type AA (1.5V) - 10-20 hours;



## Berkut-5

*new model in the world market*

Metal detector has technology of mediated imaging of objects in form of spectral hodographic images on the graphic LCD display (128x64 pixels). Programmable function button allows the user to set up one of the possible functions to be performed when the button is pressed. Possible functions: control of the sensor's current, display highlight control, enabling of power-saving mode, switching on/off the analog mode.

### Main distinctive features

- multi-frequency technology (MFT)
- broad programmable options of sound indication of five types (1, 2, 3, 10 and 91 tones)
- automatic, semi-automatic and manual ground balance

### Technical Specifications:

The maximum detection range:	45 cm - coin Ø25 mm (brass); 250 cm - large objects
Search modes	All metal; Discrimination; Pinpoint
Operation time	27 hours in normal mode; 12 hours in TURBO mode

