

PORTABLE SELECTIVE MICROPROCESSOR METAL DETECTOR

MOLE

APPLICATION

MOLE is a portable selective microprocessor metal detector designed to search for and to identify ferrous and non-ferrous objects in dielectric and weakly conductive environments.



ADVANTAGES

Convenient control allows to easily select the proper operation mode and to set up the detector in accordance with different operation conditions.

Search is performed by progressive scanning of the search head at the distance of 3 – 5 cm above the surface of inspected object (for example, ground). The detection of a metal object is accompanied by audible signals from the integrated speaker (or from the headphone). The intensity and frequency of the signal depend on dimensions and type of the object detected, as well as on the distance between the object and the search head.

Two rechargeable storage batteries provide for up to 30 hours of continuous operation. The battery charger allows to charge the battery either from main (220V) or from a car power supply.

EASY OPERATION

“Hodograph” OPERATING MODE

The signals reflected from the objects are graphically displayed on the LCD in a special form, and it makes possible to:

- ease essentially identification of detected objects;
- recognize the objects located close to each other;
- define orientation of flat medium-size objects made from non-ferrous metals and alloys.



Object Sizing and Ranging OPERATING MODE

The following features are displayed on the LCD:

- approximate size of the object;
- distance between the search head and the object;
- location of the object relative to the search head;
- presence of cavities and other ground discontinuities;
- information on type of metal of the detected object.



Detection of explosive device metal components does not lead to the device explosion.

“MASKING” OPTION

The option is designed to exclude signals from “metal garbage” and to focus on the search subject more efficiently.

OTHER FEATURES

- Two storage rechargeable batteries allow for continuous operating time up to 40 hours.
- Hermetic search head supposes under water operating at the depth up to 1 meter.
- MOLE allows for ground influence compensation, audio alarm adjustment, selecting of search range according to metal type, screen backlight.
- Battery charger allows for charging the storage batteries from main as well as from car power supply.

COMPLETE SET

The detector with handle and telescopic bar	1
Search head	1
Armrest	1
Storage battery	2
Battery charger	1
Headphone	1
Cable for the battery charger and the battery connection.....	1
Cable for connection to car power supply	1
Test rod	1
Operating manual	1
Device passport	1
Backpack	1
Case for transportation and storage	1



TECHNICAL CHARACTERISTICS

Sensitivity:

Small arms ammunition (on air):	
- cartridge caliber 7.62	35 cm
- shell caliber 7.62	32 cm
- bullet caliber 7.62	20 cm
Anti-personnel mine:	
- under sand	12 cm
- under ground	8-12 cm
- under fresh water	12 cm
- under salt water	10 cm
- under concrete surface	13 cm
Other metal objects:	
- coin Ø 25 mm	30 cm
- can Ø 100 mm	80 cm
- sewage hatch	150 cm

Telescopic bar length (adjustable)	400 ... 950 mm
Weight with storage battery	1.95 kg
Operating temperature	-20°C...+50°C
Relative humidity	up to 95% (at +25°C)
Atmospheric pressure	630 ... 800 mm of mercury
Power supply	NI-MH battery 7.2V, 3000 mAh
Operating time (from fully charged battery)	15h

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