

PORTABLE METAL DETECTOR

MOLE



BRIEF TECHNICAL DESCRIPTION

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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.



COMMON CHARACTERISTICS

Convenient controls allow to easily choose the proper mode of operation and to set up the detector in accordance with different conditions.

Search for objects is conducted by moving progressively the search head above the surface of the ground, at a height of 3-10 cm. The detection of a metal object is accompanied by sound signals from the integrated speaker or from the earphone supplied with the device. The intensity and frequency of the signal depend on dimensions and type of the object detected, as well as on distance between the object and the search head.

Two rechargeable storage batteries give the detector autonomy of up to 30 hours of continuous work. The battery charger allows to charging a battery either from mains (220V) or from a car power supply.

For underwater search at a depth of down to 1m, completely waterproof detector is needed.

TECHNICAL CHARACTERISTICS

Detection capability (maximum detection distance):

Small arms ammunition:

- cartridge caliber 7.62 35 cm
- shell caliber 7.62 32 cm
- bullet caliber 7.62 20 cm
- steel rod Ø 0,9 mm,
10 mm length10 cm

Anti-personnel mine:

- under send 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:

- test rod 7 cm
- coin Ø 25 mm 30 cm
- can Ø 100 mm 80 cm
- sewage hatch 150 cm

Other parameters:

- Telescopic bar length (adjustable) 400 to 950 mm
- Telescopic bar length (optionally)786 to 1713 mm
- IP Standard (optionally) IP65
- Weight 1.95 kg
- Power supply (Ni-MH battery) 7.2 V 3000 mAh
- Operating time (fully charged battery) 15 h
- Operating temperature -20°C...+55°C
- Relative humidity up to 95% (at 25°C)
- Atmospheric pressure 630 ... 800 mm of mercury

Object Sizing and Ranging OPERATING MODE

- The following features are displayed on the LCD:
- Distance between the search head and the object;
 - Approximate size of 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.



Hodograph OPERATING MODE

- The mode is useful for experienced operators.
- The signal reflected from the metal object is graphically displayed on the LCD to make identification of the object much more easy.
 - Objects located close to each other are easily identified.
 - The orientation of small flat non-ferrous objects and objects made from alloys is represented.
 - The search head can be moved at a much higher allowable speed.



The integrated software for data management and processing allows:

- to compensate for ground influence;
- to use "masking" adjustments for appropriate metal types, in order to exclude signals from “metal garbage” and to focus more effeciently on the subject of the search;
- to chose the search range depending on a metal type;
- to set one of three working frequencies available in the range from 7.6 to 7.8 kHz;
- to adjust the intensity of audible signal and display brightness.

COMPLETE SET

The detector with handle and telescopic bar	1
Search head	1
Armrest	1
Rechargeable battery	2
Battery charger	1
Earphone	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 MEANS OF COUNTERACTION AGAINST TERRORISM DEVELOPMENT AND PRODUCTION

- Detecton of explosives

- detection of explosive vapors and traces
MO-2M, MO-2D, MO-2DT, GCS-02F
- non-linear location of semi-conductor components
RFD 23
- visualization of hidden components
SXR-150
- metal detection
OVERTONE, RUBIKON, MOLE

- Express detecton of drugs

- GCS-02FN

**THE DEVICES ARE ADOPTED BY
SECURITY SERVICES OF RUSSIA**

THE DEVICES ARE USED IN 50 COUNTRIES FROM 4 CONTINENTS

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