

AKA

metal detector



UNIQUE TECHNOLOGIES

We invite distributors, dealers, sales representatives.

AKAMD offers you innovative solutions in the field of search and search activities.

All our products are unique and have no analogues in the world market.

There are more than 30 patents in the Russian Federation and abroad.

-PROFESSIONAL METAL DETECTORS-



«INTRONIK STF»

(Two frequencies simultaneously!)

* You can leave a preliminary reservation*

Metal detector Intronik STF is a modern technology designed to search for metal at an a consid-erable depth. Stylish appearance and the ability to search for required items despite obstacles make this device an excellent choice only for a professional.

Specifications:

Length: 560 mm (disassembled) -1430 mm (assembled)

- Weight: 1930 grams with lithium batteries.
- Operating frequencies: Two frequencies simultaneously. Frequency pair depends on mounted sensor. Standard options: 1.7kHz – 14kHz ; 5kHz – 40kHz. ; 7kHz – 60kHz.
- Batteries: 6 pcs. AA elements 1.5v, or AA AKB. Possible performance at 2 pcs. Lithium cells 18650 3.7v
- Average battery life 2600mAh AA AKB 8-10 hours.
- Indication: Sound indication / Graphic display
- Coils: Removable. Standard sizes: 6x10” ; 9x12” ; 13” ; 15” ; 18”
- Language menu Ru | En

Particular qualities:

- High detection sensitivity: large and small metal objects are detected in any type of soil includ-ing saline soil.
- Patented ground offset method “Soil compensation”. It allows to work at any type of soil (even if it is highly mineralized). Unlike devices with offset “Ground balance” to save the depth of de-tection in the ground, close to target distance by air.

It can work at two frequencies at once and also at each frequency individually. Increasing sensi-tivity to sepa-rate groups of targets in simple ground conditions.

- High degree of visualization of the properties of the detected target for each of the frequencies individually and cumulative value at the same time. It can be digital and graphic. It allows to de-termine calibrated search targets with known properties to the operator exactly. And also to de-fine properties of unknown target be-fore removing it from the ground with high probability.
- Detection depth: exceeds all devices with metal indentification which exists in the market presently.
- Universalism of Intronik STF: It is able to detect both small and large objects. And also it can work at tasks

of searching deep treasures (to detect large metal objects under surface litter). It fits for military searching.

- Replaceable sensors of various sizes and frequency characteristics. It allows to solve various searching problems as efficiently as possible, from searching low signal small objects to deep searching large metal objects including objects which are under surface litter.

Included in kit:



«INTRONIK PRO»

(Two frequencies simultaneously!)

Intronik PRO is a modification of the well-known professional multi-frequency metal detector AKA Intronik STF, created by AKAMD on the basis of alternative circuit solutions. The main idea being the basis of the modification is to give an experienced user of this device the opportunity to search for deep, “complex” targets, using the software algorithms provided by the manufacturer as efficiently as possible.

For such owners of the Intronik device, AKAMD have developed a modification (upgrade) based on new circuit solutions and a new component base. This modification, by reducing circuit noise, expanding the dynamic range, increasing resistance to external electromagnetic interference, and increasing the recovery speed, makes it possible to use more effectively the already high search capabilities of the device, making the search more effective. Major changes in circuit design as follows:

1. The Receive amplifier circuit has been completely redesigned. Not just a primitive operational amplifier replacement, but a new circuit design. What it gives: expansion of the dynamic range, minimal internal noise of the circuit, reduced influence of external electromagnetic interference, increased sensitivity to small targets due to optimization of high frequency operation, less need to carry out soil compensation when changing parameters such as gain, due to greater linearity of Phase-frequency response in the operating frequency range.
2. Replacement of operational amplifiers in compensator and phase shifter circuits. What it gives: due to precision, low-noise operational amplifiers, coil adaptation, as well as the GC(ground compensation)/GB(ground balance) procedure occurs much more accurately and confidently. As for the GC procedure, this is especially noticeable at high settings and problematic soils. Where the stock intronic already draws a snake, this one, with similar settings, allows you to carry out correctly the GC procedure.
3. Replacing comparators. What it gives: increased sensitivity to small targets, accuracy, the response from the target has less phase spread now.
4. Recalculation and modification of the anti-aliasing low-pass filter located between the demodulators and the ADC (Analog-to-Digital Converter); the recovery speed of the device directly depends on it. What it gives: Increase the recovery rate and, therefore, increase the speed of work on scrap metal without compromising the identification.
5. Redesigned VR (voltage reference) ADC circuit with ultra-low-noise operational amplifier. What it gives: A perfect ADC voltage reference is the cornerstone of its error-free operation. Noise must be minimal, otherwise forget about correct digitization of weak signals.
6. Replacing electrolytes with high quality tantalum and tantalum polymer capacitors where required.



Installation of RC filters for power supply of the main components of the circuit. What it gives: a significant reduction in high frequency interference and the mutual influence of circuit nodes on each other. This results in a significant reduction in the circuit's own noise.

7. Refinement of the audio amplifier circuit to increase sound volume and reduce distortion. What it gives: the ability to adjust more flexibly the volume of the device to suit your tasks to search for weak signals more effectively.

8. Refinement of the coil block with replacement of one of the operational amplifiers with a precision, low-noise one. What it gives: reduced noise of the so-called reference voltages at low and high frequencies. These signals are one of the key signals for the operation of the entire device circuit.

9. (Optional, if desired) increase the display brightness.



«SIGNUM GT»

(Improved component base.)

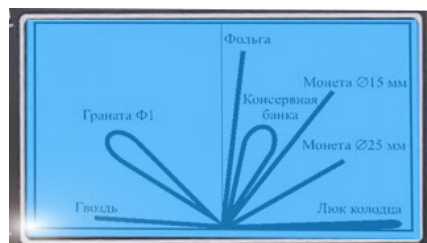
The manufacturer of metal detectors, the AKA company and the service center of metal detectors are located only in Russia. Produces Signum 7272M.

On its basis, our specialists released a specially upgraded Signum 7272M GT (Improved Component Base) device. Only for sale on the foreign market.

This is a more reliable model of the metal detector, with an improved component base. Installed additional protection against dust and moisture.

Differences from Signum 7272M GT:

1. Waiver of the regulator and switch to simplify settings and increase reliability.
2. Own element base.
3. Enhanced protection against dust and moisture.



HODOGRAPH -

All metal detectors have a unique metal identification system!



«SIGNUM Classik»

MFD Signum is a device that was released in late 2015. In place of the standard 4 “Turbo” program, this device now has a deep firmware.

Deep firmware allows the device to work more correctly at a great depth, while cutting off small debris on the surface. This firmware will be useful for those who are searching for treasures and military items.

Characteristics of deep firmware MFD Signum

Work only in HD or HD-V search modes

When working with deep firmware, you should use a search coil larger than the diameter and search while holding it 0.5 m from the ground.

Filter T-Has high search results.

Filter A-Has low search results.

Remember! This firmware slightly increases the search depth, and the main goal of the development is to remove small debris from the surface from visibility.

-SEMI-PROFESSIONAL METAL DETECTORS-



«Sorex PRO»

The AKA Sorex PRO metal detector is a multi-frequency device that has fairly simple controls and a variety of functions. The detector has a wide range of multi-sized sensors. It works on the principle of an induction compensated converter, equipped with a modern hardware-software interface.

It operates on a two-channel scheme. The first one is the detection channel. It transmits a signal in real time. The second one is an identification channel that delivers short and different-frequency signals during the passage of a special sensor over a detected object.

Signal processing is carried out according to three independent algorithms:

MSF

GA (metal garbage)

SSF

In this model, manufacturers were able to modernize the soil balancing system. A hodograph is provided. A large modern German-made display is installed.



«Pilgrim» 7247»

Modification of the analog metal detector “Pilgrim” 7247 is designed to be used by beginner treasure hunters. At maximum sensitivity settings, this model is able to detect an old coin with a diameter of 2.5 centimeters, located at a depth of 400 millimeters from the ground surface. The signal from larger metal products can be supplied when lying at a depth of up to 200 centimeters

Battery life reaches ten hours. There is a DISCRIM function, upon activation of which there will be no signal when detecting foil, small iron objects - nails, pieces of wire, etc.

-HANDHEID SEARCH METAL DETECTORS-



«Uniskan 7215 M»

(This system distinguishes non-ferrous and black metals!)

The Uniskan 7215 M security metal detector distinguishes between non-ferrous and ferrous metals in the search process, which makes it possible to clearly limit the range of items searched. Buying a device, you get universal equipment for personal inspection and search for metal objects of any size. Thanks to the advanced functionality, you can configure the device to search for large or small objects. The ability to distinguish between ferrous and non-ferrous metals is the main advantage of the equipment compared to competitors.

Maximum detection range of metal objects:

7,62 mm caliber bullet - 5..8 cm

Ø25x1 mm brass disc - 15 cm

“Makarov” pistol - 25 cm

Manhole opening - 80 cm



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