The Chance to overtake competitors!

Possibility to expand the range of security equipment

Unique combined detector

Detection of radiation and metal objects in a single detector Based on SCINTILLATOR CSI (TL) + SIPM

Uniqueness

Combined detectors with such characteristics have no analogues in the World.

- > Combining the functions of the gamma-radiation indicator and the metal detector
- ➤ The ability to simultaneously detect radioactive and nuclear materials by their gamma radiation, Detection of the shielded radiation sources, and detection of metal objects (weapons)
- ➤ **High sensitivity** to the ionizing radiation (10keV...3MeV) over a wide range of the temperatures (-20°C ... +55°C)
- ➤ A short detection time of the ionizing substance (≤ 2sec)

Advantages

- > Two devices in one
 - > Reduced cost of detection
 - ➤ Reducing the size of equipment
 - > Reducing the detection process time
- ➤ One person instead of two
 - ➤ Absence of special qualification requirements for personnel
- > Work in a complex meteorological setting
- > Work in conditions of external electromagnetic field

Applications of

From one patrol to security area

The personnel of the unequipped checkpoint

Manual scanning



Stationary checkpoints

Walkthrough scanner



Security Zones Local transmitters in the scan nodes

 Wireless association of small



Types of detectors

Differences in sensitivity, electronics, modes of indication





	RT-3.0	RT-3.1	RT-3.21	RT-3.22
Indication types	Sound and light signal	Sound signal, color-light signal (3 levels)	Sound signal, digital LCD signal of CPS level	Sound signal, digital LCD signal of CPS level and DER level

Detector RT-3.x is supplied complete with USB, CAN interfaces for communication with another equipment.



High sensitivity detector RT-40.x

	RT-40.0	RT-40.1	RT-40.21	RT-40.22
Indication types	Sound and light signal	Sound signal, color-light signal (3 levels)	Sound signal, digital LCD signal of CPS level	Sound signal, digital LCD signal of CPS level and DER level

Detector RT-40.x is supplied complete with USB, CAN interfaces for communication with another equipment.

Ready-made solutions

Embedded in finished products

Search for sources of radiation

- Detection and localization of sources of ionizing radiation
- The sound and light signals change depending on the level of the signal exceeding the threshold of operation
- "Noiseless" vibro-signal
- Searching for metal objects
 - Detection of black and color of metals
 - Detection of shielding containers for radioactive substances
 - Sound and light signals (Differ from signals of indication of radioactivity)
 - "Noiseless" vibro-signal



Mobile control

Combined detector of metal and radioactive elements

«RAD-1000»

RAD scanner variants based on RT-3.x

signal (3 levels) signal of CPS level signal DER le	22
 Light signal - metal Light signal - metal Light signal - metal 3 light signals - to level 	signal, digital LCD of CPS level and evel
	d DER indication
	244



Technical specifications RAD-1000

The main characteristics of the radiation channel

Energy range	0.015 3.0 MeV at t° -20°C 55°C
Time of the determination	2sec

Device characteristics

Mass , kg	Dimensions, mm	Moisture/Dust
0.32	432x55x31	IP44

Basic characteristics of metal detection

Detection object	Detection distance	Scanning speed
Metal container for radioactive materials	200mm	
Steel plate 100×100×1mm	100mm	00.5 m/sec
Pistol	200mm	
Knife	130mm	

Search for sources of radiation

 Detection and localization of sources of ionizing radiation

- 4 detector RT-40.0-01 is used
- The sound and light signals change depending on the level of the signal exceeding the threshold of operation

Searching for metal objects

- The complex is intended for performance of individual control for availability of firearms and other metal subjects, hidden in clothes, footwear and on the human body
- Detection of black and color of metals
- Detection of shielding containers for radioactive substances
- Sound and light signals (Differ from signals of indication of radioactivity)

Walk-through control

Electronic complex for detection of metal subjects and radioactive elements

«RAD-3MR»

Walk-through scanner variants based on RT-40.x

RT-40.0	RT-40.1	RT-40.21	RT-40.22
Sound and light signal	Sound signal, color-light signal <i>(3 levels)</i>	Sound signal, digital LCD signal of CPS level	Sound signal, digital LCD signal of CPS level and DER level
PowerLight signal - metalLight signal - radioactivity	PowerLight signal - metal3 light signals - to level radioactivity	CPS indication	CPS and DER indication
RT PT-40.0-01 Komnneke paquaquohhoro Kohtpons Acrecrup 3 Acrecrup 4 Whence paguage Acrecrup 4	RT PT-40.0-01 KOMTHEKC PAGMALMONHOTO KOHTPOJISI Acrescrop 1 Acrescrop 3 Acrescrop 4 PAGMALMONHOTO KOHTPOJISI Acrescrop 3 Acrescrop 4	RT PT-40.0-01 ROMINIE PAGE RECEIPT ACTION TO	RT PT-40.0-01 KOMINJEKC PAJUALHUOHHOFO KOHTPONS CHEST SEES Accounts RESE Accounts RESE Accounts RESE Accounts Restatch List

Technical specifications RAD-3MR

The main characteristics of the radiation channel

Energy range	0.03 3.0 MeV at t° -20°C 55°C
Setting range thresholds DR	0.01 500 uSv/h
Time of determination of the minimum amount of ionizing	2sec

The main characteristics of the metal detection

Detection object	Minimal demension
Metal subject	1x10x100mm

A set of detectors can be mounted on an already installed walk-through metal detector (*Or on any other portal*)

material

BYk cddcfh b]hyg"

9ei]da Ybhzcf'l 5J'fKfcbYgŁ

Our new development is a compact small-sized high-sensitivity gamma detector NaI (tl) 40x40. It is a functionally complete unit with its own power supply and GPS module, allowing it to be placed on any UAV without additional. Refinement. The functionality of this detector allows writing to the internal flash DER, with GPS coordinates, and also to register gamma spectra with the specified period of accumulation and measurement time. The time of continuous operation from the built-in power supply is at least 8h.

8 YhYW]cb cZYI d`cg]j Yg

The proposed detectors can be combined with devices of the "electronic nose" family-the detection of explosive and narcotic substances by residual nanoparticles.



An optional concentrator for collecting microparticles of explosives on a special filter. It can be combined with a hand-held Rad-1000 detector.

Offer for potential partners

We are interested in long-term, reliable mutually beneficial co-operation!

We offer manufacturers of security and police equipment to expand the range of manufactured products

- 1) Introduction of RT xx.x detectors into customer's products.
 - a. Sale of ready-made detectors with parameters set by the developer
 - b. Modification and finalization of the form-factor under the hulls and landing dimensions of products of customers
 - c. Development of detectors with special characteristics, as well as software
- 2) Sale of production license
- 3) Ready to discuss other formats of cooperation

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