

Arched Metal Detector with integrated radiation monitoring system

Application area:

Designed for accurate detection of metallic, radioactive and fissile objects and materials on the body and clothing of a person

B2scan SD1000-RC-09

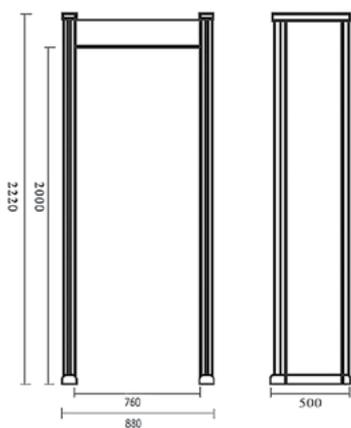
Technological features

- LED indication of detected items on the display of the control unit and side panels
- Adjustable number of detection zones - 6, 12 or 18 zones
- Sound and light alarm: adjustment of the length, volume and tone of the alarm
- Advanced broadband detection technology provides the required selectivity, allows you to work in the detection modes of mixed, ferrous or non-ferrous metals
- Automatic interference compensation
- Two-level protection against unauthorized access: The SOFTWARE is password protected, the control unit is locked with a key
- Multi-level independent sensitivity adjustment. Ability to detect the clip at the maximum level of sensitivity
- 72 pre-installed selective detection programs, the ability to create your own programs
- Passage width: 760 mm, optional up to 1000 mm
- The minimum distance between detectors: 0.3 meters without the sync cable
- Ability to connect power and Ethernet cables, left, right and top of the metal detector
- Stop/go Indicators on the front panel of the metal detector
- «Dry contacts» for connecting third-party equipment (turnstile, gateway, camera, etc.)
- 4 modes of operation of intelligent counters of passenger traffic and alarms
- «Anti-throw» mode
- Built-in uninterruptible power supply for 20 hours of battery life: optional
- SD card event logger on SD card: optional
- Computer control module: the ability to connect to a computer via USB, Ethernet, Bluetooth
- Mobile application to control the metal detector from a smartphone or tablet



- Data transmission over a local network using TCP / IP protocols
- Information exchange with the system of technical monitoring results collection and control using a unified data transfer protocol and XML-based metadata format.
- Mains voltage: AC100V ~ 242V, 50/60 Hz
- Signal frequency 7000-8999 Hz (adjustable)
- Power consumption: <20 W.

The equipment has passed compulsory and voluntary certification applicable on the Russian Federation territory. Technical parameters and complete set of goods are subject to change without notice.



Metal detector dimensions:

- Total net weight: 72 kg
- External dimensions: 2220 mm (h) x 880 mm (w) x 500 mm (d)
- Inner dimensions: 2000 mm (h) x 760 mm (w) x 500 mm (d)
- Operating temperature: 0 °C to +55 °C

Characteristics of the Radiation Monitoring Module

- LED indication of radioactive material detection on the control unit display
- The energy of gamma radiation detected by the device is from 0.05 to 3.0 MeV
- Detection thresholds meet the requirements of Government Decree No. 969 dated 26.09.2016
- The frequency of false activation - no more than 10^{-5} (0,001%)
- Continuous operation – 24 hours a day, 7 days a week
- The change in sensitivity with a change in temperature within the operating conditions of use is no more than $\pm 2\%$
- The change in sensitivity when changing the power supply voltage within the operating conditions of use is not more than $\pm 2\%$
- The device provides automatic classification of alarms according to the degree of danger (at least three degrees)
- The controlled space of the device is a sphere with a radius of 2 m centered at the location of the radio monitor and meets the requirements of the Government of the Russian Federation No. 969 of September 26, 2016.



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