



Hand-held Combined Metal and Gamma-radiation Monitor GSDT-007

The new model GSDT-007 is easy to use hand-held metal detector with additional function to detect and locate gamma-radioactive substances in the checked baggage, objects and personnel. During just single scan the GSDT-007 allows simultaneous detection of metals and radioactive substances thus substantially reducing clearance time and quantity of the instruments used by personnel at the check-point.

The unique operational advantage of the GSDT-007 model that makes it different from any existing analogues is sensitivity of gamma detector. The GSDT-007 uses CsI(Tl) scintillation detector, similar to specialized PRDs (personal radiation detectors) used in homeland security. This substantially extends the range of applications of the instrument, making it in particular useful in cases where the use of regular PRDs is intolerable. Given the common housing and shape of the instrument it makes it easy e.g. hidden additional scan for radioactive substances, while doing regular security check with metal scanner, etc. Another application area is the management of the medical waste, where the need for simultaneous control of syringe needles and radioactive contaminated substances is needed.

The GSDT-007 can be used both indoors and outdoors for inspection of people, vehicles, luggage, premises and open area. It requires little training, is easy and convenient to use.

ADVANTAGES

- Ultimate sensitivity (similar to specialized PRDs)
- Proprietary algorithm providing low false alarms rate
- Self-calibrating to different backgrounds
- Wide temperature range
- Sound and vibration alarms
- Rugged and lightweight
- Requires no or little training

TYPICAL APPLICATIONS

- Custom and border protection check points
- Medical waste management
- Airports and seaports, points of entry
- Public and sport events
- Building security and critical infrastructure protection

Hand-held Combined Metal and Gamma-radiation Monitor GSDT-007

Specifications

Radiological	
Detector	3cc CsI(Tl) +SiPM
Sensitivity	100 cps/ μ Sv/h (Cs-137)
Energy range	from 50 keV to 3 MeV
Preset threshold	30 μ R/h (0.30 μ Sv/h)
Typical time to alarm, gamma	< 2 sec.
Metal	
Typical detection distance (in the air), mm	
• Knife	150 ($\pm$ 10)
• Gun	200 ($\pm$ 10)
• Magnetic plate 100x100 mm	200 ($\pm$ 10)
• Led container	200 ($\pm$ 10)
Metal detector, frequency	40 kHz
Scanning speed, m/s	from 0.1 to 0.5
Mechanical	
Ingress protection	IP54
Dimensions, mm	420x85x45
Weight, g	470 (with battery)
Environmental	
Temperature range	from -20 to +50 °C
Pressure	from 84,0 to 106,7 kPa
Humidity	from 95% at +35 °C
Functional	
Three-color LED indication	Green LED = ON Blue LED = GAMMA ALARM Red LED = METAL ALARM
Battery	one 9V (type 6F22)
Battery lifetime	80 hours (at normal operation conditions)
Dimensions, mm	420x85x45
Weight, g	470 (with battery)

Specifications are subject to change without notice.
Copyright © 2023, GSDT General Trading LLC. All rights reserved.

GSDT General Trading L.L.C.

Address: Naif St., Naif
Dubai, UAE
Phone: +971 (50) 454-4146
e-mail: info@gsdt.ae



