



A series of highly sensitive gamma ray detectors

Digital compact scintillometers, ideal to locate low level radioactive material

The **RT-21 SUPER SCINT** is a compact hand held radiation detector specifically designed to quickly determine the location of weakly radiating nuclide material. The highly sensitive **RT-21** is an ideal instrument for surveying people, vehicles, packages or material. It will quickly and easily detect gamma - emitting radioactive sources.

Applications

Metal industries
Scrap metal recycling plants
Nuclear facilities
Airports and harbors
Customs & border monitoring
Waste processing plants
Geology and geophysics

Technical specifications

Detector: NaI(Tl), dimensions 51 x 51 mm (103 cm³) integrated with bi-alkali photomultiplier, or optionally BGO detector with the same dimensions

Sensitivities

160 cps/1MBq for Cs-137 unshielded at 1 m distance (200 cps/MBq with BGO detector), or
75 cps/ MBq Am-241 at 1 m, or
270 cps/MBq Co-60 at 1 m distance (400 cps/MBq with BGO detector)

Energy response: 30 keV - 3,0 MeV

Control: Single push button, thumb activated, ON/OFF function and background reset



Cargo inspection

Display: Graphical LCD, 128 x 64 pixels or 60 x 28 mm, with automatic backlight and maximum counts of 65535. The display shows either "counts per second", cps, or dose rate (as measured against Cs-137). Dose rate mode is set via your PC.

Audio alarm Via miniature speaker. The audio frequency is proportional to measured count rate for eyes - free search. Its threshold is adjustable manually or automatically to reflect the local background radiation. The alarm audio may be switched off when necessary.

Power supply: Four "AA" type rechargeable batteries (NiCd or NiMH) or non rechargeable (alkaline). The battery operating time is typically 10 hours of operation at 20 °C (NiMH) or 15 hours (alkaline).

Memory The RS-22 model has an internal memory for data storage. About a month of field work may be stored if the average working time is 15 hours per day. Data can be transferred to a PC either via USB cable or wireless via Bluetooth.

No check sources needed

These models require no radioactive test sources for proper operation. There is no need for adjustments of settings or instrument calibration.

RADIATION DETECTION SYSTEMS AB

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Model RT-21 T with telescopic arm extends the operational radius with 2 m and allows easy inspection of trucks and containers.



Model RT-22 has a memory for data storage

Standard delivery accessories

- Protective boot with carrying strap
- 4 AA Rechargeable Batteries
- Two battery cartridges (one for spare)
- USB cable
- Power adaptor
- User manual
- Transport case

Specifications are subject to change.

More useful features

- Working temperature range: -10 °C to + 50 °C
- Sprinkling water and dust resistant
- Automatic warning of high dose rate
- Scrolling histogram graph display of last 100 readings
- IP 66 weather proofing
- Some models store GPS position with survey data

Alternative models

Model	Detector type	Sensitivity Cps/MBq Cs-137	Weight kg	Dimensions cm x cm x cm	Telescopic arm	Memory	Bluetooth	GPS (external) option
RT-21	NaI	160	2,0	26 x 8 x 9,5				
RT-21 BGO	BGO	200	2,4	26 x 8 x 9,5				
RT-21 T	NaI	160	3,6	(120 – 190) x 8 x 9,5	YES			
RT-22	NaI	160	2,0	26 x 8 x 9,5		4 MB	YES	YES
RT-22 T	NaI	160	3,6	(120 – 190) x 8 x 9,5	YES	4 MB	YES	YES

All models are made in the EU by Georadis s.r.o

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