

Your Alternative  
To The Obvious

## RT-21 and RT-22 series Hand Held Radiation Detector

The RT-21 and RT-22 SUPER SCINT are a robust and compact series of hand held radiation detectors specifically designed to quickly scan for radioactive materials. Models with NaI or BGO scintillator are available as well as models with an extensible telescopic arm for ease of operation when tall objects are to be scanned.



Quickly determining the location of lost radioactive sources in the environment or scrap, monitoring of waste in hospitals or waste incinerators, scanning people or baggage to disclose illicit trafficking of nuclear materials; all are typical applications for the RT-21 and RT-22 series.

- Highest Sensitivity
- Rugged, Lightweight and Compact design
- Graphical Display
- One Button Operation
- USB connection
- Bluetooth (RT-22 only)
- Weather protected
- 2-Year Warranty

The graphical display shows a histogram of the last 100 measurements to quickly determine the location of the radiation. The RT-21 and RT-22 series have a balanced handle equipped with a single push button, that allows for easy one handed operation.

A loud variable pitch audio tone, proportional to the intensity of the gamma radiation detected, provides eyes free searching. Both trip level for the audio as well as a threshold for danger alarms can be set by using GeoView software package.

Georadis is acknowledged as a foremost producer of innovative radiation detection products, devices and solutions. The built-in Bluetooth connectivity for the RT-22 series allows a GPS location to be integrated with the measurement. Bluetooth also provides access for wireless headsets for audio feedback in high noise areas.

The ruggedness, small size and light weight of these instruments, combined with a choice of very sensitive Gamma Ray scintillation detectors makes the RT-21 and RT-22 series very versatile for quick measurements in a large variety of applications.

- Applications**
- Waste Recycling and Incineration plants
  - Scrap metal recycling
  - Security and surveillance operations
  - Hospitals
  - Customs and Border protection
  - Nuclear facilities
  - Research laboratories
  - Production facilities





## RT-21 and RT-22 Product Range



The RT-21 and 22 series have an IP65 dust- and waterproof, lightweight cast aluminium housing and a detachable plastic boot with shoulder strap for additional protection under harsh environments. The units are powered by a handy quick change battery pack containing four AA type batteries (Alkaline or Rechargeable). A fully automatic charger is integrated in the unit for use with rechargeable (NiCd or NiMH) batteries.

<b>GEORADIS</b>		RT-21	RT-21T	RT-21B	RT-21BT	RT-22	RT-22T	RT-22B	RT-22BT
<b>Standard Comparison Table</b>									
Display	Numerical								
	Graphical	*	*	*	*	*	*	*	*
Data acquisition	Gross Counting	*	*	*	*	*	*	*	*
	Spectroscopy								
Connectivity	USB	*	*	*	*	*	*	*	*
	Bluetooth					*	*	*	*
Memory	Medium (4Mb)					*	*	*	*
	Large (1Gb)								
Software	GeoView Package					*	*	*	*
	Isotope Identification								
	Assay mode								
Detector type	NaI, 30 x 30mm								
	NaI, 51 x 51mm	*	*			*	*		
	BGO, 51 x 51mm			*	*			*	*
	GM tube								
	Neutron Detector								
Mechanical	Handheld	*		*	*	*	*	*	*
	Telescopic arm		*		*	*	*	*	*



## Technical data

### Detectors

NaI/(Tl),  $\Phi 51 \times 51$  mm (2" x 2"), 104 cm<sup>3</sup> (6.3 in<sup>3</sup>), RT-21, RT-21T, RT-22 and RT-22T.  
BGO,  $\Phi 51 \times 51$  mm (2" x 2"), 104 cm<sup>3</sup> (6.3 in<sup>3</sup>), RT-21B, RT-21BT, RT-22B and RT-22BT.

### Scintillometer

Sampling period 20/second

### Gamma ray sensitivity free in air at 1m

(for RT-21, RT-21T, RT-22 and RT-22T only)  
75 cps/1MBq for Am-241  
160 cps/1MBq for Cs-137  
270 cps/1MBq for Co-60

### Display

Graphic LCD 128x64 pixels 28 x 60 mm  
Automatic Backlight

### Data Storage and Transfer

(RT-22 series only)  
4 MByte FLASH  
Bluetooth 1.2 Class 2  
GPS Support NMEA 0183  
USB 2.0 (all models RT-21 and RT-22)

### Environmental

IP-65 Water and Dust resistant  
Operating temperature range -10°C to +50°C  
RFI/EMF Shielding complies with FCC(47 CFR part 15) for Class A CE Certification

### Size (LxWxH) and Weight (incl batteries)

RT-21 & 22: 260x81x96 mm<sup>3</sup>, 2 kg  
(10.2"x3.2"x3.8", 4.4lb)  
RT-21B & 22B: 260x81x96 mm<sup>3</sup>, 2,2 kg  
(10.2"x3.2"x3.8", 4.8lb)  
RT-21T & 22T: 1225x85x135 mm<sup>3</sup>, 3,5 kg  
(48.2"x3.3"x5.3", 7.7lb)  
RT-21BT & 22BT: 1225x85x135 mm<sup>3</sup>, 3,8 kg  
(48.2"x3.3"x5.3", 8.4lb)

### Package

Aluminium outer case (RT-21, RT-21B, RT-22 and RT-22B)  
Special mould plastic case (RT-21T, RT-21BT, RT-22T and RT-22BT)  
AC Net power adaptor  
Spare battery cartridge  
User guide  
GeoView software (RT-22 series only)

