

# RADREFLEX 2

Mobile contraband detector



An essential part of international customs is prevention of smuggling, especially drugs, weapons, explosives and cigarettes. RadReflex 2, NUVIATech Instruments contraband detector is a fast and secure way to check cavities within vehicles. Using reflected radiation from a small radioactive source is possible to identify areas which have been modified for smuggling.

## Benefits

- Easy-to-use - only 5 function keys
- Ergonomic housing
- Optimal alignment of detector and certified radiation source
- Low activity radioactive source minimises regulatory requirements
- Battery operated
- User enabled acoustic feedback
- Optional serial interface for data transfer

## Key Figures

**10** mm Steel  
↳ Penetration depth

**0.37-0.95** MBq  
↳ Source activity

**< 0.5**  $\mu$ Sv/h  
↳ External dose-rate

## Product Description

- Microprocessor-based measurement electronics
- Digital and analogue result display
- Easy-to-use menu with user guidance
- Programmable alarm thresholds
- Low activity source (< 1 MBq) minimising regulatory requirements
- Integrated, optimised tungsten shielding
- 25-30 hours battery operation
- Acoustic signalling dependent on backscatter possible
- Stored library with reference values
- Optional external display for the use in areas that are difficult to access

## Technical Data

<b>Detector</b>	CsI detector 24 x 21 x 10 mm
<b>Radiation source</b>	0.37 – 0.95 MBq Ba-133, ISO Classification C.34444 Encapsulated source integrated into a tungsten rotary plate and an extra tungsten shielding 15-20 years useful life for source
<b>Radiation protection</b>	Low source activity Dose rate at 10 cm from the measured surface < 0.5 µSv/h Blinking LED and mechanical display when source is opened (measuring mode)
<b>Scanning surface</b>	Large contact area for a secure scanning of the region of interest Exchangeable, self-sticking pads
<b>Penetration</b>	Up to 10 mm steel
<b>Electronics</b>	Microprocessor-based measurement electronics with intelligent battery charging
<b>Interfaces</b>	Rs-232 for PC systems and I2C for external display
<b>Display</b>	Backlit graphic LCD screen (128x64 pixel) Measurement display Digital with extra information e.g. measurement object Additional analogue display (bar-graph)
<b>Keypad</b>	5 function keys with menu-dependent functions (user-guided)
<b>Alarm</b>	Acoustic alarm
<b>Housing</b>	Robust plastic housing (Miramid®) Protected operating lever
<b>Protection class</b>	IP 56
<b>Temperature</b>	-15°C to +40°C
<b>Power supply</b>	2 batteries, type AA 1.5V
<b>Dimensions</b>	90 x 60 x 270 mm including handle
<b>Weight</b>	Approx. 985g without batteries



## Accessories

- Hard case for transport and storage
- External LC display for difficult to access areas
- Software for further configuration
- Extension for deployment in hard to reach areas e.g. in the upper areas of containers or for trucks