RADIATION SOLUTIONS INC

RS-120 Super-SCINT

Handheld Gamma-Ray Scintillometer



Locate radioactivity easier and eyes free!

RS-120 – The Ideal Field Instrument

The RS-120 Scintillometer is a robust and portable hand-held radiation survey search device for a wide variety of industries. It offers an integrated design with a large detector for high sensitivity, a direct survey readout, audio output, full weather protection, and ease of use. Due to the robust and versatile design, the RS-120 is equally suited for finding radioactive spill in the environment, scanning for lost sources in scrap metal, confirming radioactive content in waste, or confirming contrasts between geological unit.

APPLICATIONS

FEATURES

- High sensitivity with large 2" x 2" NaI crystal, 6.3in^3 (103cm^3)
- Light weight & rugged 4.4lb (2kg) including batteries
- Easy-to-use, single button operation
- Survey mode with search capability showing numeric display
- 5-digit LCD display with scrolling histogram graph display of last 100 readings
- Fast audio output with adjustable audio threshold set point
- Unique audio feedback for fast source localization and eyes-free operation
- Special rugged design to withstand typical field usage, weatherproof, water and dust protection
- Typical 8-12 hour battery life at 20°C (4 x AA batteries)
- No radioactive sources required for proper operation
- Supplied in hard case with moulded insert for shipping & storage







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The large NaI detector offers an extremely high level of system sensitivity. The wide energy range of the RS-120 makes it ideally suited for locating all types of gamma-ray isotopes including geological, medical, nuclear, industrial, and NORM.

The large, easy-to-read five-digit front panel display updates at a once per second rate, including a scrolling histogram with the last 100 readings, greatly simplifying the source localization. The integrated audio scans at a 20 times per second data rate providing unique audio feedback for eyes-free operation and fast source localization.

The special rugged design of the RS-120 withstands typical field use and is weatherproof, providing water and dust protection. The instrument's protective boot provides extra protection when scanning through rough materials such as rock, scrap metal, or waste. The easy carrying strap can be quickly decontaminated or replaced when required.



Radiation Solutions Inc.

Radiation Solutions Inc. (RSI) is a Canadian company specializing in nuclear instrumentation for the detection, measurement and analysis of low-level ionizing radiation from both naturally-occurring and man-made sources.

RSI's industry-leading radiation detection technology incorporates a fully digital system design, spectral analysis and advanced data processing. RSI deploys this technology in stationary systems, airborne and mobile systems, portable and handheld spectrometers. This provides a level of quality previously only attainable in laboratory equipment.

RSI is committed to working closely with customers in all aspects of the product life cycle including product requirement, application, training, support and product enhancement. Our comprehensive approach results in state-of-the-art hardware components and software that produce outstanding results exceeding expectations.

SPECIFICATIONS

Large 2" x 2" NaI(Tl) crystal, 6.3in^3 (103cm^3)

- 1024 channel spectrometer
- Energy Range 30keV - 3000keV

Readout

- Counts in cps from 0 to 65,535 and histogram chart

Audio via miniature speaker

- Variable audio threshold set point
- Audio proportional to count rate, internal sampling 20/second

Single button control

Graphic LCD display 1 1/8" x 2 2/3" with white backlight and automatic dimming

Temperature Range -20°C to +50°C

Size and Weight

- 10.2" x 3.2" x 3.8" (259mm x 81mm x 96mm)
- 4.4lb (2kg) including batteries

Internal detachable battery pack

- Typical Life 8+ hours at 20°C
- 4 x AA type rechargeable or alkaline

Standard RS-120 Package

- RS-120 Scintillometer with carrying handle
- Removable protective boot with shoulder strap
- Battery cartridge with 4 x AA rechargeable batteries and charger
- Spare battery holder cartridge
- RS-Analyst utility software
- User guide
- Delivered in hard case with foam insert

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