

## TS215

An energy-compensated gamma-ray spectrum survey meter with a large-diameter **1.5-inch LaBr<sub>3</sub>(Ce)** scintillator mounted on the radiation detector. It can be used in an environment where dose rate measurement in a wide range is required.

A chart with different time constants is displayed on the **LCD color display**, allowing you to check the dose rate over time and the energy spectrum in real time. The attached RS232C add-on enables data acquisition on a personal computer.

- **Range of dose rate** 0.001 μSv/h – 600 μSv/h
- **Detector** LaBr<sub>3</sub>(Ce) scintillator Φ1.5" × 1.5"
- **Energy response** Within ±10% (Energy-compensation)
- **Energy range** 30 keV - 3 MeV
- **Energy resolution** 2.8 - 3.7 % (<sup>137</sup>Cs, 662keV, typ.)
- **Throughput** 100 kcps
- **Sensitivity** 60,000 cpm/μSv/h, <sup>137</sup>Cs
- **Function** Dose rate, Spectrum measurement, Nuclide identification (20 nuclides)

### Overview

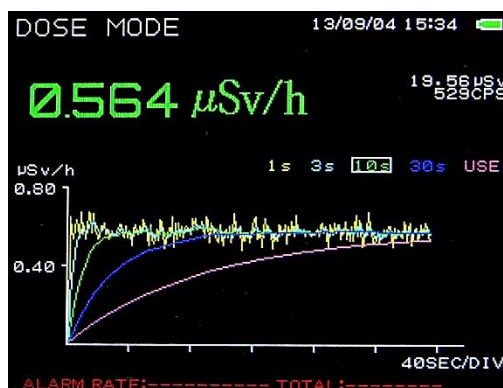
Compared with general NaI(Tl) scintillator, the energy resolution is very good at about 3% (Cs-137 662keV gamma ray), and the decay time constant is also very fast at 16 ns, so 0.001 μSv/h to 600 μSv/h It is possible to measure a wide range of with high sensitivity.

The latest digital signal processing circuit (DSP: Digital Signal Processing) is installed to realize a high-speed digital filter and highly accurate energy correction. The spectrum measurement function enables nuclide identification and quantitative measurement.

Rechargeable with built-in lithium-ion battery.

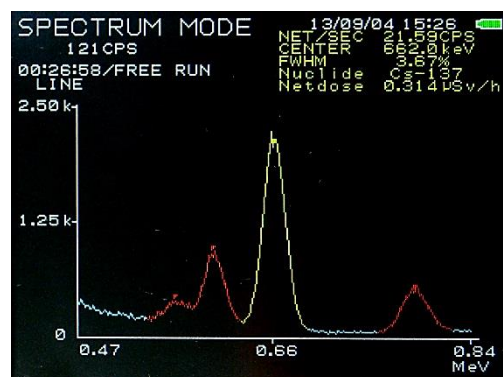
### Specifications

Dose rate time constant	1 sec, 3 sec, 10 sec, and 30 sec, by user setting
Alarm function	Dose rate Integrating dose rate
Energy spectrum	2048 channels
Nuclide identification function	20 nuclides such as, <sup>134</sup> Cs, <sup>137</sup> Cs, <sup>131</sup> I, <sup>60</sup> Co, <sup>40</sup> K, etc.
Display	LCD color display, 320 x 240 dots
Power (Li-ion battery)	3,000 mAh Recharged from AC adapter
Operating time	Apprx.7 hours
External dimensions (Unit: mm)	Main unit: 101(W) x 195(H) x 44(D) Detector: φ48.5 x 188.5(H) *without cable connector
Weight	Approx.1.2 kg
Environmental condition	Operating temperature: 0 - 40 °C, No dew condensation



Display of dose mode

\*Dose rate time constant: 1 sec. (yellow), 3 sec. (aqua), 10 sec. (green), 30 sec. (blue), user (pink)



Display of spectrum mode

\*Images is for illustration purpose.

\*Please note that contents may change without prior notice.

