

# Spectrum survey meter TS500

MADE IN JAPAN

Gamma-ray energy-compensated with CeBr<sub>3</sub> scintillator

μSv/h

20180627

This is an energy-compensated gamma ray spectral survey meter using 1 inch CeBr<sub>3</sub> scintillator. This can be used in environments where dose rate measurement in a wide range is required. With this device, charts with different time constants can be displayed on LCD color display, time change of dose rate and energy spectrum can be confirmed in the rear time.

- Range of dose rate 0.001μSv/h~300μSv/h
- Detector CeBr<sub>3</sub> scintillator Φ1" × 1"
- Energy response Within ±10% (Energy-compensation)
- Energy range 30keV - 3MeV
- Energy resolution 4% typ. (<sup>137</sup>Cs, 662keV)
- Sensitivity 30,000 cpm /μSv/h <sup>137</sup>Cs
- Function Dose rate, Spectrum measurement, Nuclide identification

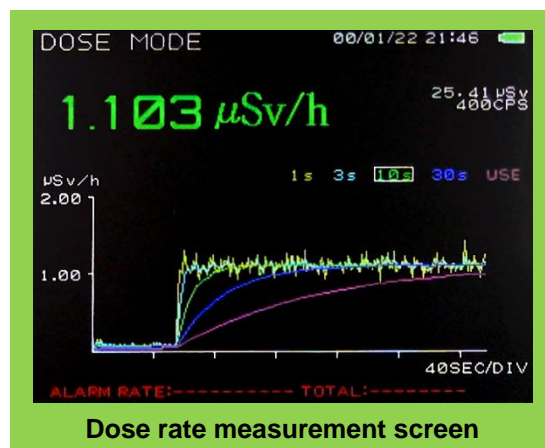


## Overview

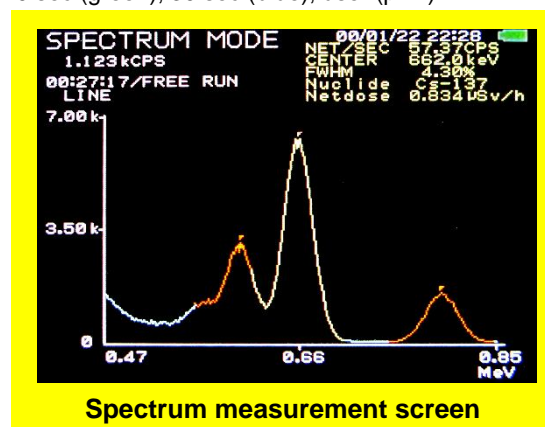
This product has superior energy resolution compared to general NaI (TI) scintillator, and it is 4% typ. (<sup>137</sup>Cs, 662 keV). The decay time constant is also very fast as 17 ns, and it is possible to measure a wide range from 0.001 μSv / h to 300 μSv / h with high sensitivity. In addition, the background inherent in the crystal is low, enabling highly accurate measurement. The latest digital signal processing circuit is adopted, high speed digital filter, high precision energy correction are realized. Nuclide identification and quantitative measurement are possible with the spectrum measurement function. Built-in rechargeable lithium-ion battery, use the attached interface for data transfer to the computer.

## Specifications

Dose rate time constant	1 sec., 3 sec., 10 sec. and 30 sec.
Energy spectrum	2048 channels
Nuclide identification	<sup>134</sup> Cs, <sup>137</sup> Cs, <sup>131</sup> I, <sup>60</sup> Co, <sup>40</sup> K, etc.
Power (Li-ion battery)	3000mAh Recharged from AC adapter
Operating time	About seven (7) hours
External dimensions (Unit: mm)	Main unit: 101(W) x 195(H) x 44(D) Detector: 50(W) x 200(H) x 50(D) *without cable and connector
Weight	About 1.2kg
Environmental condition	Operating temperature: 0 to 40 degrees No dew condensation



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



\*Images is for illustration purpose.  
\*Please note that contents may change without prior notice.

Website



Manufacture of Radiation and Radioactivity measurement devices

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