

# Spectrum Survey meter TS500

MADE IN JAPAN

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

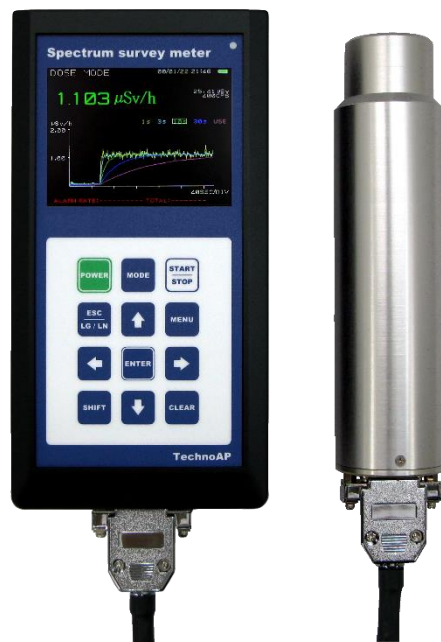
μSv/h

TS500 is a spectra survey meter with energy compensated for gamma-ray with 1 inch CeBr<sub>3</sub> scintillator. It can be used for dose rate measurement in a wide range. The different time constant chart will be indicated on the LCD color display. Therefore we can check time variation of dose rate and energy spectra in real time.

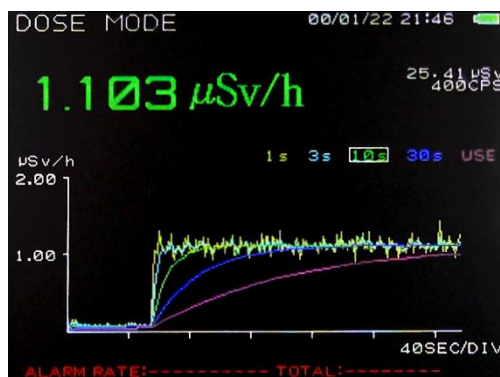
- Range of dose rate 0.001μSv/h~300μSv/h
- Detector CeBr<sub>3</sub> scintillator Φ1" x 1"
- Energy response Within ±10% (Energy-compensation)
- Energy range 30keV~3MeV
- Energy resolution 4% typ. (<sup>137</sup>Cs, 662keV)
- Sensitivity 30,000cpm/μSv/h <sup>137</sup>Cs
- Function Dose rate, Spectrum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

## Overview

TS500 is a spectra survey meter with a 1 inch CeBr<sub>3</sub> scintillator which is a high function. The energy resolution is excelled about 4% typ. (<sup>137</sup>Cs, 662 keV). This resolution is high resolution compare with general NaI(Tl) scintillator. Damping time constant is very high-speed at 17ns. Therefore it is possible to measure in a wide range, 0.001 μSv/h ~ 300 μSv/h at a high sensitive. It can be a high-speed digital filters, and high-precision energy correction by using a new digital signal processing circuit (DSP: Digital Signal Processing). It is able to a nuclide identification and quantitative measurement from spectra measurement function. TS500 is using a rechargeable lithium ion battery. It is possible to the data transfer to PC by using an interface in an optional feature.



TS500

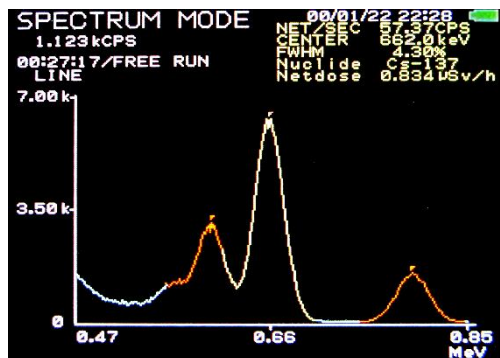


Display of dose mode

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

## Specifications

Dose rate time constant	1 sec, 3 sec, 10 sec, 30 sec, user setting
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	3000mAh
(Li-ion battery)	Recharged from AC adapter
Operating time	About seven (7) hours
External dimensions	Main unit: 101(W) x 195(H) x 44(D)
(Unit: mm)	Detector: 50(W) x 200(H) x 50(D)
	*without cable connector
Weight	About 1.2kg
Environmental condition	Operating temperature: 0 – 40 degrees
	No dew condensation



Display of spectrum mode

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

# TechnoAP

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