

# RAP Scintillation Probes

## RAP47, RAP200, and RAP640 Scintillation Probes

The CsI (TI) crystal used in Radiation Alert® Probes has a higher atomic number, is more rugged, and less hygroscopic than a typical NaI detector. The improved gamma ray absorption allows a thinner crystal to be used, effectively reducing the background count rate.

**Detector**

Type-CsI (TI) crystal (Cesium Iodide Thallium)

**Probe Construction**

Anodized aluminum housing. Approximate size: length 7-7.5 inches, diameter 1.5 inches.

Connectors-Standard MHV. Cable (Optional)-Straight RG59/u, length 3.5 feet.

**Temperature Range**

-25°C to 40°C (-4°F to 104°F)

**Humidity Range**

0 to 90% Relative Humidity.

**Weight**

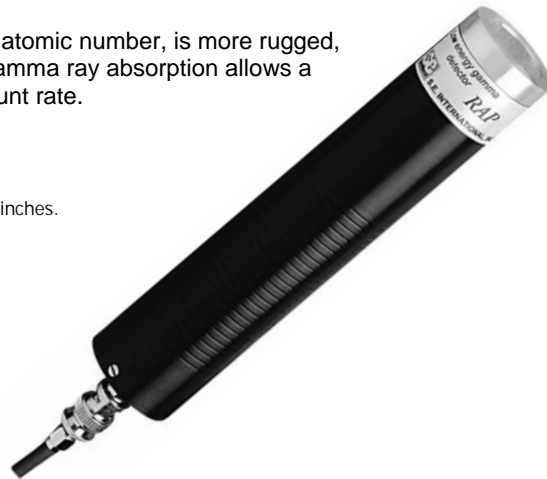
RAP47-Approx. 178 g (6.3 oz.) without cable

RAP200-Approx. 240 g (8.5 oz.) without cable

RAP640-Approx. 290 g (10.25 oz.) without cable

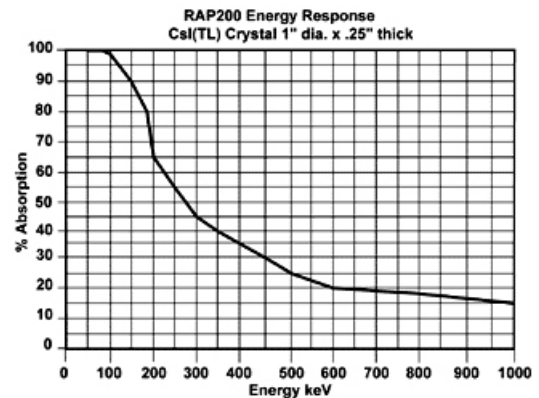
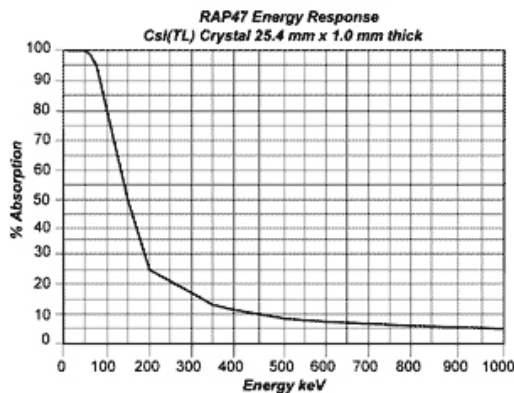
**Warranty**

One year limited.



RAP47: Thin-crystal (1 mm) optimizes sensitivity to low energy gamma radiation while minimizing sensitivity to higher energies. An excellent detector for Iodine-125 and suitable for thyroid uptake measurements

RAP200: A 0.25-inch crystal optimizes this for the detection of special nuclear material (SNM) such as U-235, or related isotopes such as Am-241, much like a mini-FIDLER.



RAP640: Superior to a 1 x 1-inch NaI detector, this is a great choice for an all-around gamma and x-ray detector. Optimal energy range of about 20 keV to 2 MeV. Highest efficiency for a broad spectrum of gamma-emitting isotopes.

All RAP Scintillation probes work with the [URSA-II Universal Radiation Spectrum Analyzer](#).

