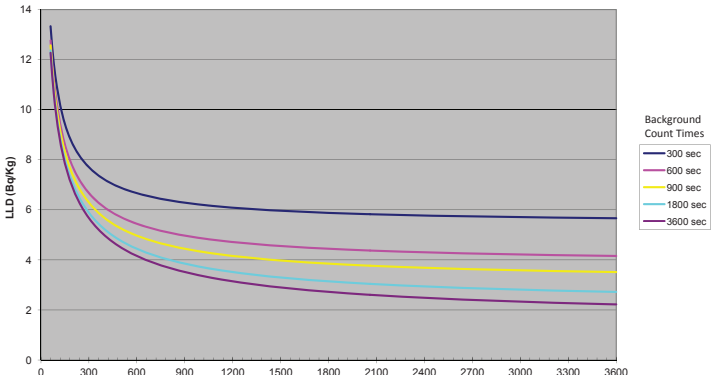
GAMMA PAL

Portable Analysis Laboratory

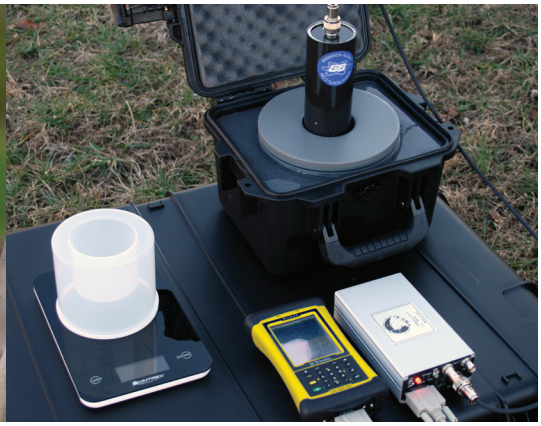
The Gamma PAL is a complete portable measuring system for analyzing radiation contamination in food, such as milk, meat, fish, grain, fruit, and vegetables, as well as soil, water, air and other materials. It allows users to directly and easily perform quick, reliable measurements in Bq/l or Bq/kg and identify the isotopes present in potentially contaminated material using one of three pre-calibrated geometries.

Radioactive material in the sample is detected with a 2x2 sodium iodide scintillation probe using a Marinelli geometry for soil, water, and bulk samples or a 2-inch filter geometry for wipes and air samples.The 500ml beaker is placed in a 1-inch thick lead shield. Depending on the sampling time and the isotope, the detection limit is approximately 2.5-100 Bq/l and can easily identify concentrations of Iodine^{131}, Cesium^{134}, and Cesium^{137}.

Sample Count Time vs. LLD for Various Background Count Times
Bkgd = 8 cps, Eff = %15, Sample = 0.6 Kg



Kit Includes:
URSA-II Multi Channel Analyzer w/ GammaPAL Software, One 2X2 NaI Detector w/ C-C cable, TDS Nomad 900LE w/ Bar Code Scanner and Serial Boot, iM2075 Lead Shield Case, 5000g Tempered Digital Scale, K^{40} Reference Standard, 10 Marinelli Beakers, Sieve for Sample Collection, Hand Shovel, Inspector Survey Meter w/ Wipe Test Plate, Swipes for Wipe Tests, iM3075 Storm Case on Wheels



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