CT007-F

The CT007-F is a compact alpha, beta, gamma detector. This makes it suitable for identifying radioactive contamination. Unlike pancake Geiger-Mueller tube based instruments, it is light, compact, and durable. The CT007-F is sensitive enough to pick up the radiation from household items, but can still measure up to dangerous levels. It is easy to use and can even connect wirelessly to your phone. The phone provides a rich user interface and allows for time and date stamped data logging with GPS coordinates. The data can be logged to a file on your phone as well as optionally being logged to RadResponder.

On the back is the sensor with an alpha/beta shield. This shield can be closed to take gamma only measurements, or opened to reveal the sensor window and take alpha and beta readings. This shield also keeps the sensor safe during transport.

Detector: Plastic scintillator and silicon photomultiplier
Measurement Units: User selectable (µSv, mRm or counts)
Window: 4.2 cm² active area alpha, 5 cm² beta/gamma, aluminized mylar protected by aluminum screen
Sensitivity: ~163 CPM/µSv/h (Cs-137)
Range: 0 to 20,000 µSv/h, 2 Rem/h, 3,000,000 CPM
Resolving Time: 15 microseconds
Response Time: User selectable from 1 to 30s or Auto. Display updates every second
Background: ~12 CPM
Local Display: 2.2 x 1.2 cm OLED. Font size automatically adjusts to display as many digits as needed.
Local Controls: One push button - short press (<2s) to toggle screens; long press (>2s) to enter/exit sleep mode
Wireless communication: Bluetooth Low Energy connecting to GammaGuard.
Operating Time: 300 hours connected to GammaGuard, 130 hours if using local display.
Size: 5 x 9 x 2.4 cm (2 x 3.5 x 0.9 in.)
Weight: 80 g (including batteries)