

model
CT007-F



Features:

- Alpha, beta, gamma detector
- Low cost, compact, lightweight
- Response range from 1 to 20,000 $\mu\text{Sv/h}$
- Simple single-button local operation with display
- Connects to GammaGuard via Bluetooth Low Energy (BLE)
- State of the art solid state detector
- Rich user interface provided by smartphone display
- Capable of logging data to the smartphone, or to RadResponder
- Requires 2 standard AAA batteries

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 photo-multiplier

Measurement Units: User selectable (μSv , mRm or counts)

Window: 4.2 cm^2 active area alpha, 5 cm^2 beta/gamma, aluminized mylar protected by aluminum screen

Sensitivity: ~ 163 CPM/ $\mu\text{Sv/h}$ (Cs-137)

Range: 0 to 20,000 $\mu\text{Sv/h}$, 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)

