Environmental
Instruments
Canada Inc.

CT007-M microR Meter

Small microR Meter with High Sensitivity

Features

- Small, lightweight design
- 19.4cm^3 CsI(Tl) scintillator achieves almost twice the sensitivity of a 1" NaI(Tl) based microR meter and almost 1000 times that of a standard survey meter.
- Optional removable, telescoping adjustable handle to access hard to reach areas.
- Simple single-button local operation
- Connects to GammaGuard by Bluetooth Low Energy (BLE)
- Rich User Interface provided by Smartphone display
- Can log data to the Smartphone



Introduction

The CT007-M is ideal for measuring very low levels of radiation. It features almost twice the sensitivity of standard microR meters at about 15% of the size. The CT007-M is primarily used for uranium exploration or contaminated site clean up. Additional areas of use include the scrap metal industry to check loads for radioactive material, Border Services personnel to either replace portal monitors or for locating radioactive sources in materials after portal monitors have been alarmed. Similarly, the CT007-M could be used by Law Enforcement for detecting and finding concealed radioactive materials.

The CT007-M may be wirelessly linked to your smartphone with the readings displayed on the phone's screen. This allows you to take readings in locations that are not in line of sight. A telescoping handle is optionally provided for access at a distance. The phone can be clipped to the handle, enabling one-handed operation. The Smartphone provides a large display with access to a feature-rich menu. You can use earphones, connected to the phone, to hear beeps or alarms in noisy environments. Optional accessories include an extension handle, which allows the operator to more easily get the instrument close to potential sources.





Specifications

Indicated Use: Measurement of low level gamma radiation. Source finding.

Detector: 19.4 cm3 CsI(Tl) scintillator and silicon photomultiplier

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

Gamma Sensitivity: [Cs-137] 30,000 CPM/µSv/h

Measurement Range: 0 to 50 µSv/h, 5 mRem/h, 1,500,000 CPM

Resolving Time: 30 microseconds

Response Time: User selectable from 1 to 30s or Auto. Display updates every second

Background: 1600 CPM

Display: 2.2 x 1.2 cm OLED. Font size automatically adjusts to display as many digits as needed

Local Controls: Single push button. Short press to toggle screens; long press on/off

Wireless Communication: Bluetooth Low Energy connecting to GammaGuard

Batteries: 2 standard AA batteries

Operating Time: 1000 hours connected to GammaGuard, 300 hours with screen on

Size: 5 × 10.5 × 5 cm (2 × 4.1 × 4.1 in.)

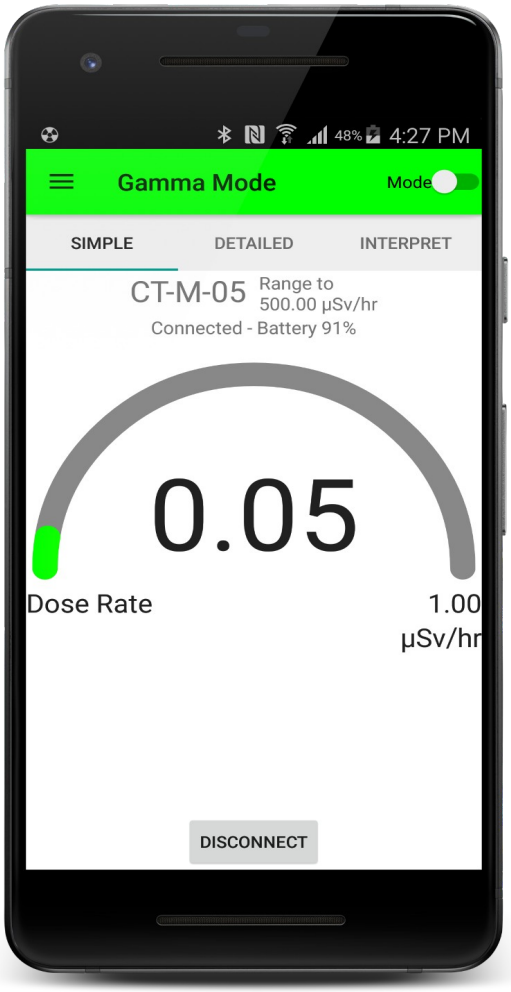
Weight: 230 g (including batteries)

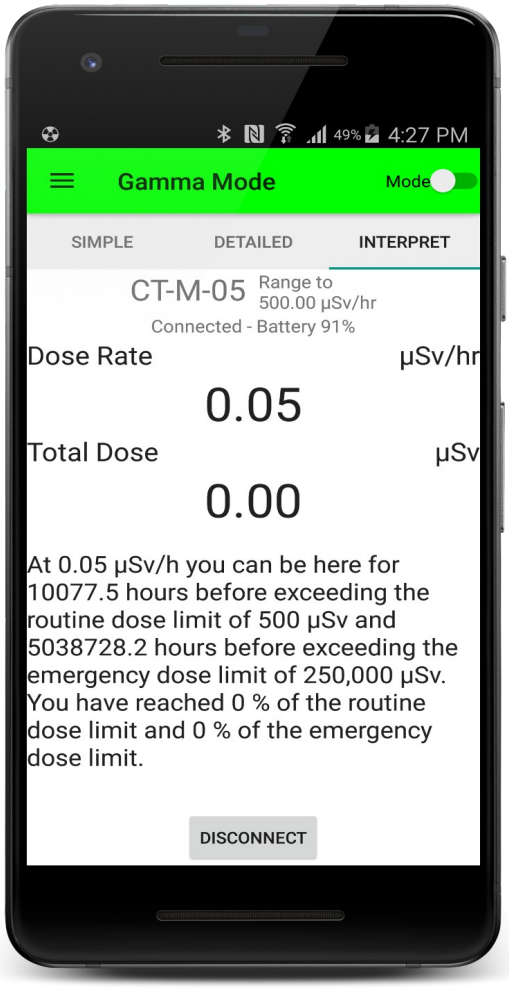
The GammaGuard System

The CT007-M, like many of our other radiation measurement instruments, connects to our GammaGuard app.

The GammaGuard App:

- Provides a large, easy to read display.
- Has the ability to interpret readings for non-technical users.
- Uses one consistent user interface across all CT007 series detectors so that there is only one system to learn.
- Can automatically save data to a file and upload data to a central database, facilitating coordinated incident response.
- Will run in the background while performing other tasks.
- Alerts the user to elevated radiation levels, even when the app is not in the foreground.
- Displays the radiation level when the CT007 series detector is up to 40 m away.
- Changes background from green to yellow to red to indicate low, elevated and high levels of radiation.





For more information
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