



Environmental  
Instruments  
Canada Inc.

## CT007-M microR Meter

Small microR Meter with High Sensitivity

### Features

- Small, lightweight design
- 19.4 cm<sup>3</sup> 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.
- 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 or to the RadResponder network

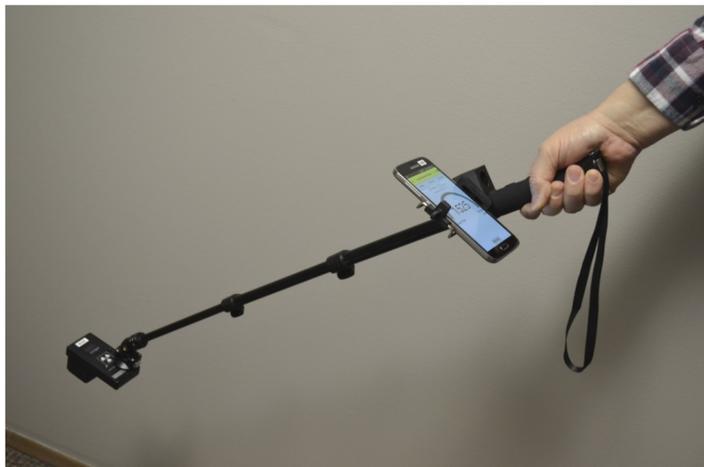


### Introduction

The CT007-M is intended for finding concealed sources of radiation. It features almost twice the sensitivity of standard microR meters at about 15% the size. The CT007-M can be used by Border Services personnel to locate radioactive sources in vehicles, after portal monitors have alarmed or they can be used to replace portal monitors. It can be used by Law enforcement for detecting and finding concealed radioactive materials.

The CT007-M is also ideal for measuring low environmental levels of radiation such as for clean-up projects or mineral exploration.

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.



### Specifications

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

**Detector:** 19.4 cm<sup>3</sup> CsI (TI) scintillator and silicon photomultiplier

**Measurement Units:** User selectable ( $\mu$ Sv, mRem or counts)

**Gamma Sensitivity:** [Cs-137] 37,000 CPM/ $\mu$ Sv/h

**Measurement Range:** 0 to 50  $\mu$ Sv/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 adjust 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.)

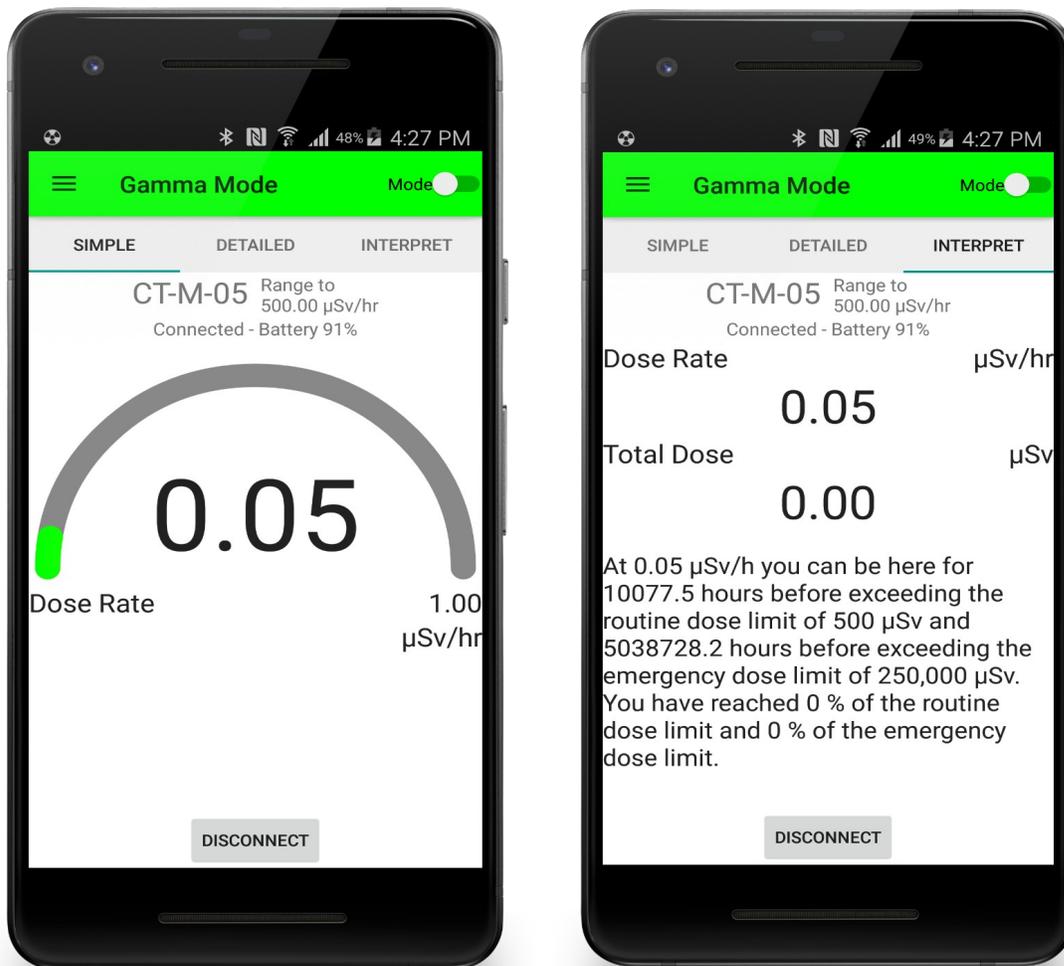
**Weight:** 230 g (including batteries)

# 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.
- Can connect to 2 of the same type CT007 detectors at the same time to determine the direction of a radiation source.



For more information  
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