



Environmental  
Instruments  
Canada Inc.

## Radiation Response Kit (Kit-02)

Two pancake detectors with a telescoping handle in a rugged protective case

### Features

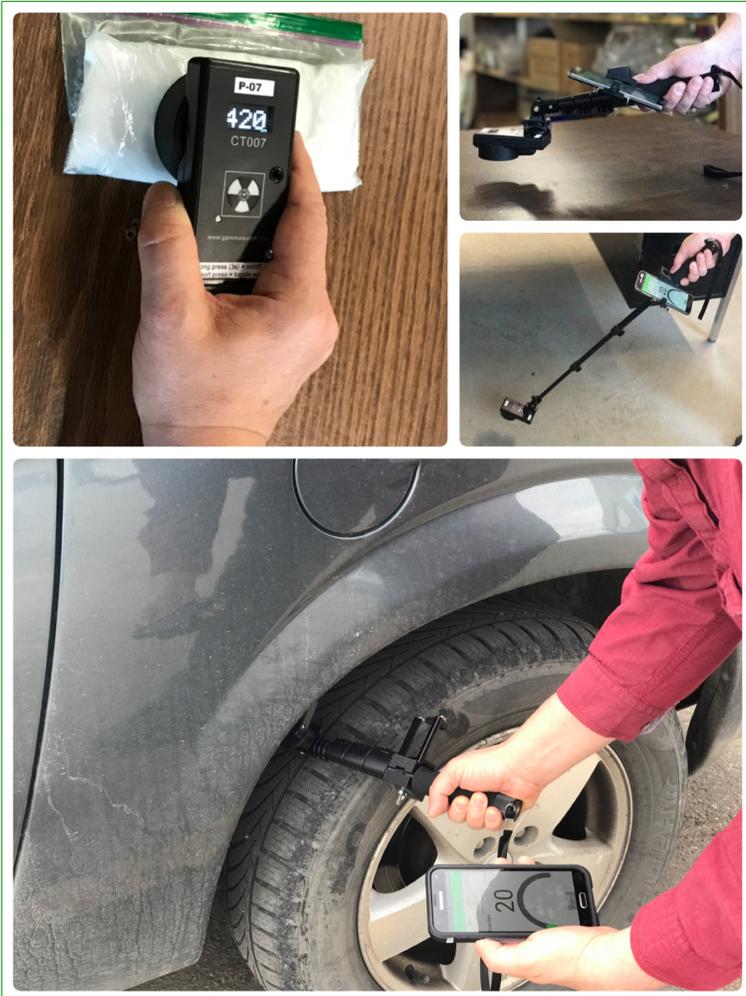
- 2 CT007-P pancake detectors
- 1 Removable, telescoping, adjustable angle handle, to facilitate floor scanning and frisking
- 1 Rugged protective case
- Simple single-button local operation with display
- Connects to GammaGuard via Bluetooth Low Energy (BLE)
- Rich user interface provided by smartphone display
- Capable of logging data to the smartphone, or to the RadResponder network



### Introduction

The Pancakes Kit includes two CT007-P pancake detectors and a telescoping handle in a rugged protective case. This kit is ideal for First Responder teams. For hot zone / cold zone delineation, one CT007-P is used in dose rate mode and the other is used in contamination mode. During decontamination, both detectors are used in contamination mode. The redundancy achieved by using two identical instruments for different tasks means that all tasks can still be performed, even if one of the detectors is damaged. Also, one CT007-P can be used to confirm the readings of the other one.

The kit can be supplied with only one CT007-P (Kit-01) and the CT007-P is also available without accessories.



# CT007-P

## The Most Versatile Pancake-Type Radiation Detector on The

The CT007-P combines the best aspects of the 2 piece cable-connected units and the newer integrated friskers. The CT007-P is a very small and light instrument with a small display on the back of the unit. The CT007-P can be used independently in this stand-alone configuration.

Alternatively, the CT007-P 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 can be attached 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. The cordless connection to your Smartphone has a range of approximately 40 m and the telescoping handle can be extended with an ordinary painter pole. The GammaGuard app, running on your smartphone allows you to log data to a file on the phone or upload data to RadResponder, a web based database. You can use earphones, connected to the phone, to hear beeps or alarms in noisy environments.

### The GammaGuard App:

The CT007-P, like many of our other radiation detection instruments, connects to our smartphone application, GammaGuard.

- Provides a large, easy to read display.
- Has the ability to interpret readings for non-technical users.
- Uses one consistent user interface across all our 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.
- Alerts the user to elevated radiation levels, even when you are performing other tasks and GammaGuard is running in the background.
- 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 update the firmware on external detectors, to ensure they are always up to date.

### Specifications

**Indicated Use:** Contamination frisking, sample counting and surveying difficult to reach areas.

**Detector:** Pancake-type GM tube (LND7312)

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

**Window:** 15.51 cm<sup>2</sup> active area. 2.0 mg/cm<sup>2</sup> mica protected by aluminum screen on ABS hex. 63% open

**Efficiency (4 $\pi$ ):** Similar to other pancakes: 15% for Am-241, 20% for <sup>90</sup>Sr/<sup>90</sup>Y;

**Gamma Sensitivity:** [Co-60] 348 CPM/ $\mu\text{Sv/h}$  (3480 CPM/mR/h)

**Resolving Time:** 120 microseconds

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

**Background:** 50 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 × 3.5 cm (2 × 4.1 × 1.4 in.)

**Weight:** 245 g (including batteries)

For more information please contact:  
Environmental Instruments Canada Inc.  
admin@eic.nu  
306 974 6055