



(AM003)

Bridge Between Third party probes and your phone

Features

- Compatible with many third party probes
- Single-Button Local Operation
- Connects to GammaGuard by Bluetooth Low Energy (BLE)
- Can be equipped with a large (32 mm diameter x 49 mm) NaI(Tl) probe for Post-cleanup Contamination meter
- Rich User Interface Provided by Smartphone Display
- Can Log Data to the Smartphone or to the RadResponder Network
- Rechargeable batteries and USB charger

Introduction

The AM003 allows many different third party probes to be connected to GammaGuard app and from there to the Internet. AM003 equips with a large (32 mm diameter x 49 mm) NaI(Tl) probe. This type of probe would typically be used in a post-cleanup scenario to detect small increases in background radiation.

It can be used as a stand alone, with a simple one button interface, and an OLED display to show data. It also can connect to a smartphone via Bluetooth Low Energy (BLE). When connected to a phone, our GammaGuard app provides a rich user interface (UI).

The GammaGuard app allows for time and date stamped data logging with GPS coordinates. The data can be logged to a file on the phone and it can (optionally) be logged to web based databases, such as RadResponder, facilitating a coordinated incident response.



Specifications

Indicated Use: post cleanup contamination meter

Detector: Many different third party probes , i.e. NaI(Tl) probe

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

Sensitivity: ~ 55555 CPM/ $\mu\text{Sv/h}$ (Cs-137)

Linearity: Linear response to $60 \mu\text{Sv/h}$

Resolving Time: 20 microseconds

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

Energy Compensation: not energy compensated

Local Display: 2.2 x 1.2 cm OLED. Font size automatically adjust 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.

Batteries: Li-Ion rechargeable battery

Size: 5 × 10.5 × 1.8 cm (2 × 4.1 × 0.7 in.)

Weight: 410 g (including batteries without NaI probe)

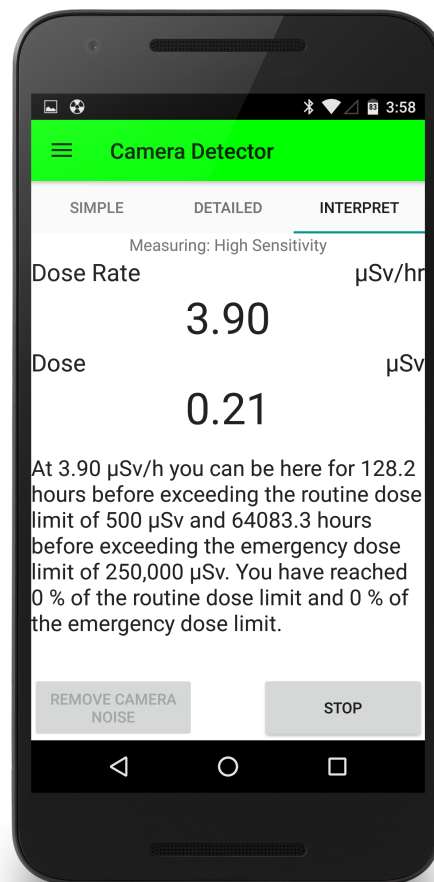
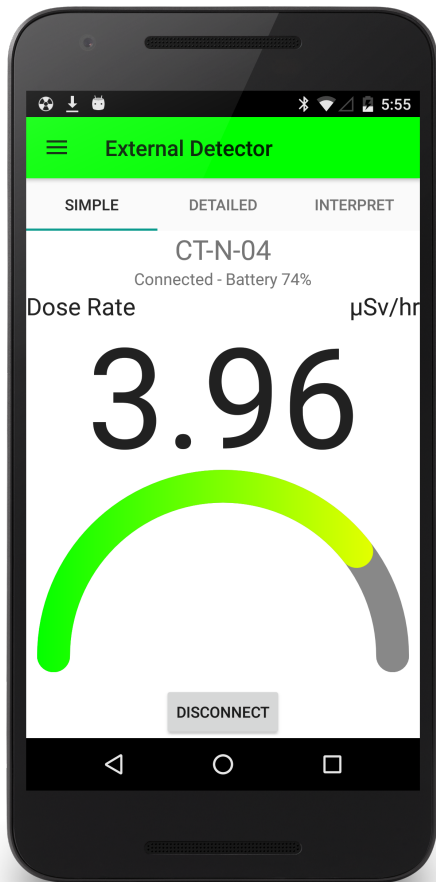
The GammaGuard System

The AM003, like many of our other radiation instruments, connects to our GammaGuard app.

By itself, the GammaGuard app, installed on your smartphone, can provide basic radiation detection and warn the user of dangerous radiation levels, using only the phone's camera as a radiation sensor. Other more sophisticated or sensitive radiation measurement instruments, such as the Am003 and Nano-Nukes can be wirelessly connected to GammaGuard.

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 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 remotely when the external 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 please contact:
Environmental Instruments Canada Inc.
admin@eic.nu
306 974 6055