



The K8 Personal Radiation Indicator is an inexpensive nuclear radiation alert device for detecting the presence of radiation and radioactive materials. These high sensitivity, high performance miniature radiation trigger devices are suitable for detecting dirty bombs and other sources of gamma, beta and X-ray radiation. The devices meet NCRP guidelines for managing terrorist events and all units are performance-tested using NIST-traceable sources. The K8 comes with a pre-set alarm level.

Incredibly Easy to Use:



Green flashes

The faster the green LED flashes, the higher the level of radiation



Red flashes & audible alarm

High radiation field and/ or radioactive materials present



Yellow flashes

Radiation Indication

High Radiation Level

Change Battery

Ideal for:

- **Clipping on shirt**
Police and firefighters, Emergency Medical Services (EMS), HAZMAT teams, airport checkpoint guards, pilots and flight attendants, coast guard, border patrols, military, government emergency management teams, nuclear facility workers, and hospital staff
- **Wearing on wrist**
Airport baggage handlers, courier package carriers, postal workers, customs and cargo inspectors
- **Placing in car or in the home**
Household protection and general public safety

Applications:

- Alert first responders to the presence of radioactive materials.
- Detect dirty bombs or other illicit radioactive materials in packages.
- Provide immediate radiation alert for military, emergency response teams and nuclear facility workers.
- Perform border crossing inspections.
- Provide radiation indication to medical radiation therapy staff at hospitals.
- Alert households and general public of abnormal levels of radiation.

- **Wide sensitivity range, from background radiation levels to extremely high fields (> 0.1 Sv/h)**
- **Immediate alarm response, with customer-specified alarm trigger level**
- **Lightweight, rugged, and small size**
- **Meets NCRP Guidance & Recommendation for Management of Terrorist Events**
- **Meets EMC Directive Standards**
- **Exceeds ANSI 13.27 Drop Test Standards**

PERSONAL RADIATION INDICATORS

MODEL K8

Technical Specifications

(Visit www.bubbletech.ca for more information)

Size:	25 mm x 39 mm x 12 mm (1" x 1.5" x 0.475")
Weight:	13 grams (0.5 oz)
Construction:	High impact plastic housing and clip
Ruggedness:	Exceeds drop test requirements of ANSI 13.27
Temperature:	-30 °C to +50 °C (-22 °F to 122 °F)
Humidity:	> 95 %
Detector Type:	Si solid-state detector
Energy Detection Range:	Gamma and X-ray: 30 keV - 6.2 MeV Beta: 600 keV -1.5 MeV Detects both low-energy radionuclides such as I-125 & Pd-103 (commonly used in nuclear medicine and radiation therapy in hospitals) and high energy radionuclides such as Cs-137, Co-60, Ir-192, I-131, U-235, Ra-226, Y-90 & P-32 (likely materials for dirty bombs).
Sensitivity Range:	Detects from natural background radiation levels to high radiation fields (> 0.1 Sv/h)
LED Indicators:	– Green, yellow and red LEDs flash when power turned on. – Yellow LED indicates low battery (12 hours of use after indication). – Green LED flashes: <ul style="list-style-type: none">▪ every 5 - 10 minutes for natural background radiation;▪ every ~5 seconds at 0.5 mrem/h (5 µSv/h);▪ every ~2.5 seconds at 1 mrem/h (10 µSv/h);▪ every ~1 second at 2 mrem/h (20 µSv/h). – Red LED flashes when alarm trigger level exceeded.
Alarm Trigger Level:	– Ranges from 1 mrem/h to 10 rem/h (10 µSv/h to 0.1 Sv/h) – Alarm trigger level specified by customer – Trigger level set and tested by manufacturer – Default setting at 5 mrem/h or 50 µSv/h
Alarm trigger time:	Approximately 2 seconds
Audible alarm sound level:	80 dB at 10 cm (4")
Power:	One standard lithium battery (CR2032). Battery life ~ 1500 hours for normal background radiation.