

Gammatometer™

Weapons Detector

Worlds only multiple threat detector that simultaneously detects metallic weapons and nuclear radioactive material used in Dirty Bombs

Patent Pending

Gammatometer™ detector benefits:

Integrated Radiation - Metal Detector

The Gammatometer™ is a microprocessor controlled highly sensitive solid state radiation detector and magnetometer. While an operator is screening for guns, knives and other weapons the Gammatometer is searching for radioactive materials that could be found in a nuclear weapon or used to construct a "dirty bomb" (RDD).

The 9volt battery operated Gammatometer™ detector operates in fully automatic mode 24 hours a day sensing for the presence of radioactive materials with energy levels ranging from 20keV to 6.1MeV. The integrated "Nuke" detector device is designed to detect both X and Gamma radiation sources.

The digital metal detection circuit has preset high or low sensitivity settings that can be adjusted with the touch of a button.

Real-time Detection of Radiological Dispersal Device (RDD) Bomb Materials

Response Time to Alarm: < 3 Seconds

Detects Nuclear Radiological Isotopes from 20keV- 6.1MeV Energy Levels

Detects 1/10th of a gram of Cobalt-60 at 160 feet!

Highly Sensitive Metal Detector for Guns, Knives and Weapons - NIJ Standard 0602.02

Detects Metallic objects as small as a push pin

Emerging threat detector tool for a complete security screening solution.



secureTEQ™

Threat Detection Technology for Homeland Security

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Gammatometer™ Technical Specifications (typical)

General Description:

The Gammatometer is a durable, hand-held law enforcement weapons screening device that contains an integrated microprocessor controlled magnetometer (metal detector) and a solid-state gamma radiation detector. The unit has 2 user selected preset sensitivity settings for metal detection (High & Normal). Annunciation modes include audible, silent with LED and vibration. The Radiation detector has no user adjustable sensitivity settings, is fully automatic and alarms in 3 seconds or less. The alarm set point is factory set to alarm at 5 mr/hr field intensity which is equal to a routine Dental X-ray and 100 times above normal background radiation yet 10,000 times below a dangerous level. A useful instrument for detection of credible radiation threats.

Electronic Metal Detector:

RF Frequency range:	55kHz Sinusoidal Wave
RF Output Voltage:	110mV Pk-Pk
Ferrous/Non-Ferrous Detection:	Yes
Detection Field:	Omni-Directional
Metal Detection Alarm:	Audible Piezo Sounder Tri-color LED Vibration (optional)
Battery Life:	100+ Hours
Low Battery Indicator:	LED Alternating Green/Orange
Power Source:	9 VDC

Mechanical Properties:

Body:	Nylon/Fiber Glass composite
Color:	Grey
Weight: (w/battery)	380 grams
Overall Length:	470mm (18.5")
Probe Length:	250mm
Operating Temperature:	-10 to +55 deg.C (14 to 140 deg.F)
Storage Temperature:	-40 to +85 deg. C
Relative Humidity: (Non-condensing)	95%

Radiation Detector:

Detector:	Solid-state Si detector.
Detection Range:	Gamma 20 KeV – 6.1 MeV Beta 600 KeV – 6.1 MeV
Sensitivity (cesium137):	10mCurie@ 75 centimeters 100 mCurie @ 2 meters 1 Curie @ 5.4 meters 10 Curie @ 17 meters
2 mrem/hr Warning:	Green LED flashes rapidly, approx. every second
Response Time:	3 Seconds (max)
Normal Background Radiation Status:	Occasional Yellow LED Flash
Radiation Over Limit:	> = 5 mR/hr Rapid Flash Yellow LED Pulsed Audible Piezo Sounder or pulsed Vibration (optional)
Battery Life:	150+ Hours
Low Battery Indicator:	Flashing Orange L.E.D.

Agency Listings:

CE – FCC - NIJ 0602-02

Ordering Information:

HH-200-A Gammatometer