



Spectrometric Personal Radiation Detector

Personal High-Resolution Detection, Identification and Dose Assessment





Our Mission and Vision

With a passion for innovation and safety, GalaxRay was formed to develop and manufacture innovative technology in radiation detection. GalaxRay experts are responsive to global radiation detection and assessment needs to advance technology in detecting orphan and naturally occurring radiation materials. These advanced devices will instantly inform professionals and the general public users about radiation type and record immediate and cumulative exposures.



GalaxRay V 3.0 is a high-resolution solution CZT-type detector that delivers unparalleled performance in express radionuclide identification and radiation dose assessment from low to moderately high levels. Continuous dose rate monitoring and recording enables users to be instantly informed about radiation exposure and/or carefully analyze radiation dose risks by exploring the dose rate recorded charts.

This practical belt wearable cellphone-sized, three-button operated, handheld gamma-spectrometer is used for radiation dose assessment, dose rate time profile recording, and express nuclide identification with up to one thousand gamma-spectra storage. The instrument is temperature stabilized and in compliance with ANSI 42.48 – 2018.

The instrument is accompanied by GalaxRayWiz software, a powerful tool that communicates with the device, and analyzes gamma-spectra and dose-rate time profiles accumulation up to 24 hours. Collected data can be easily transferred via USB or Wi-Fi.

GalaxRay V 3.0 is the most technologically advanced radioisotope detector, identifier and dose assessment device of its size in the industry.

GalaxRay V 3.0 is suitable for:

- ✓ Manufacturing; Safety Professionals, First Responders, Product Security Entrance
- ✓ General Public: Vicinity of the Nuclear Power Plant, Concerned about Radioactive Exposure to self or family, Nuclear Threats
- ✓ Nuclear Energy Workers
- ✓ Radiochemical & Radiopharmaceutical industries
- ✓ Steel, Scrap and Waste recycling
- ✓ Radiological services
- ✓ First responders, Border Patrol, and TSA Screening
- ✓ Dirty Bomb Detection

GalaxRay V 3.0 Physical Specifications:

MODEL	DESCRIPTION	DIMENSIONS OF THE CZT/NEUTRON DETECTOR
GalaxRay V3.1	Spectrometric Personal Radiation Detector with CZT of 500 mm ³ detector	CZT Detector: 5 mm x 10 mm x 10 mm
GalaxRay V3.2	Spectrometric Personal Radiation Detector with CZT of 500 mm ³ detector and Neutron Detector	CZT Detector: 5 mm x 10 mm x 10 mm Neutron Detector: 15 mm x 40 mm (Li-6 based cylindrical detector)
GalaxRay V3.3	Spectrometric Personal Radiation Detector with CZT of 1600 mm ³ detector	CZT Detector: 16 mm x 10 mm x 10 mm
GalaxRay V3.4	Spectrometric Personal Radiation Detector with CZT of 1600 mm ³ detector and Neutron Detector	CZT Detector: 16 mm x 10 mm x 10 mm Neutron Detector: 15 mm x 40 mm (Li-6 based cylindrical detector)

DIMENSIONS: L 6.5" (165 mm), W 3.2" (81 mm), H 1.0" (25 mm)

WEIGHT: 250 grams (0.55 lbs.) with battery

GalaxRay V 3.0 Technical Specifications:

ENERGY RANGE: 0.03 – 3.0 MeV, 1024 Ch

ENERGY RESOLUTION: 1.8 – 2.5% @662 keV

DOSE RATE RANGE: 0.01 μ Sv/hr – 30 mSv/hr

DOSE RATE ACCURACY: +/- 30% (0.1 μ Sv/hr to 100 μ Sv/hr)

NEUTRON SENSITIVITY: \approx 2.4 cps/nv

NUCLIDE ID OVER-RANGE DOSE RATE: 0.5 mSv/hr

PRESET TIME: 86,400 s

DISPLAY: LCD 2.8", 240 x 320 pixels, backlight

ALARMS: Audio (~85 dB), audio jack, vibrator, LED operations: 3 – button keyboard

DATA STORAGE: up-to 1000 spectra & up-to 24 hours of dose rate time records

DATA TRANSFER: via USB & Wi-Fi

ELECTRICAL: Lithium-ion rechargeable battery, 3.7 V 5200 mAh

BATTERY CONTINUOUS WORK: with Wi-Fi on & back-light on: - up-to 14 hours

with Wi-Fi off & screensaver on: - up-to 26 hours

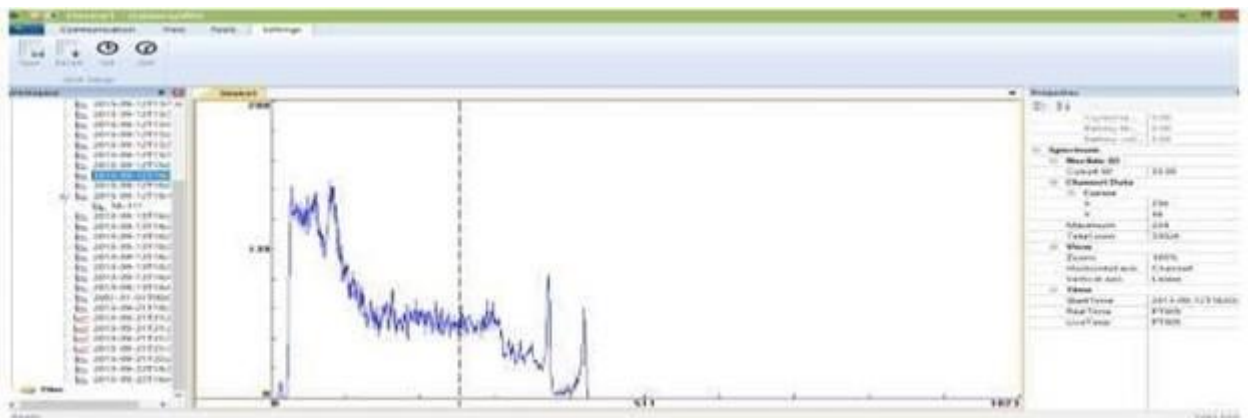
CHARGE TIME: 4 – 5 hours, with the battery indicator on the display

ENVIRONMENTAL: from -10° C to +50° C (-4 F to 122 F)

GalaxRay V 3.0 Nuclide Identification:

SPECIAL NUCLEAR MATERIAL (SNM)	NATURALLY OCCURRING RADIO ACTIVE MATERIAL (NORM)	INDUSTRIAL		MEDICAL
Uranium - 233	Uranium - 238	Americium - 241	Cesium - 137	Thallium - 201
Uranium - 235	Thorium - 232	Iridium - 192	Barium - 133	Iodine - 131
Neptunium - 237	Radium - 226	Europium - 152	Cobalt - 57	Technetium - 99m
Plutonium - 239	Potassium - 40	Cesium - 134	Cobalt - 60	Gallium - 67

GalaxRay V 3.0 Spectra Reading





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