

DÉTECTEURS & DIVERS



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Spectrum Techniques Spectrum Techniques is a U.S.-based provider of radiation detection and measurement solutions, offering a comprehensive range of detectors, quality assurance (QA) sources, alpha, beta, and gamma spectrometry systems, as well as samplers and counters. Their products are designed to support educational institutions, research laboratories, and industrial applications requiring precise and reliable radiation measurements.

Product offering

Isotope Generator - Spectrum Techniques



Isotope Generator - Spectrum Techniques



This Cs-137/Ba-137m Isotope Generator is used to conduct experiment in schools and universities to demonstrate the properties of radioactive decay. Based on the original Union Carbide patented design, it offers exceptional performance combined with ease of use and safe operation.

Contact one of our product specialists.

If you prefer to continue your search for additional information, try this [link](#).





Ludlum Medical Physics (LMP), a division of Ludlum Measurements, Inc., specializes in radiation safety and medical imaging quality assurance (QA) solutions. Their comprehensive product line supports healthcare professionals in maintaining high standards of patient safety and diagnostic accuracy across various medical disciplines.

Product offering

Probes (Ludlum)



Model 133-6 GM Detector - Ludlum



Model 133-4 GM Detector - Ludlum



Model 133-2 GM Detector - Ludlum



Model 44-3 NAL Low Energy Gamma Scintillator - Ludlum



Model 44-2 NAL Gamma Scintillator - Ludlum



Model 44-1 Beta Scintillator - Ludlum



Model 44-38 Energy Compensated GM Detector - Ludlum



Model 44-9 Ambient Dose Equivalent Filter - Ludlum



Model 44-9 Exposure Filter Kit - Ludlum



Model 44-9 Pancake GM Detector - Ludlum



Model 44-7 Alpha Beta Gamma Detector - Ludlum



**Model 43-92 Alpha
Scintillator - Ludlum**



**Model 43-65 Alpha
Scintillator - Ludlum**



Probes (Ludlum)



For any application Ludlum offers a wide range of probes. The probes can be used with all Ludlum models which require an external detector.



Ludlum models with external detector a.o.:

- [Model 3000 Digital Survey Meter](#)
- [Model 3001 Multi-Detector Survey Meter](#)
- [Model 375 Area Monitor Controller](#)
- [Model 375/9 Digital Area Monitor](#)
- [Model 30 Digital Survey Meter](#)

Model 133-6 GM Detector - Ludlum



The Model 133-6 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-6 GM Detector features:

- waterproof (optional)
- halogen quenched
- stainless steel tube
- range: $40 \mu\text{Sv/h}$ to 10Sv/h
- energy compensated GM

Read more about the Model 133-6 GM Detector on the [Ludlum Website](#)

Model 133-4 GM Detector - Ludlum



The Model 133-4 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, portable ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-4 GM Detector features:

- waterproof (optional)
- halogen quenched
- stainless steel tube
- range: 0.01 mSv/h to 100 mSv/h
- energy compensated GM

Read more about the Model 133-4 GM Detector on the [Ludlum Website](#)

Model 133-2 GM Detector - Ludlum



The Model 133-2 GM Detector (Ludlum) is a gamma survey detector (GM) that can be used with any scaler instrument, portable ratemeter or area monitor that delivers the appropriate amount of voltage (see datasheet below) with an input sensitivity of $30 \pm 10\text{mV}$.



Model 133-2 GM Detector features:

- stainless steel tube
- energy compensated GM
- waterproof (optional)
- halogen quenched
- range: $1 \mu\text{Sv/h}$ – 10mSv/h

Read more about the Model 133-2 GM Detector on the [Ludlum Website](#)



Model 44-3 NAL Low Energy Gamma Scintillator - Ludlum

The Model 44-3 NAL Low Energy Gamma Scintillator (Ludlum) is a detector for 125I and low energy gamma radiation survey.



Model 44-3 NAL Low Energy Gamma Scintillator features:

- entry window: 18.4 mg/cm²
- weight: 0.5 kg
- sensitivity: 675 cpm/μR/hr (125I)
- window area: 5 cm² open and active
- efficiency (4π): 33.5%–125I (based on 129I efficiency of 18%)
- detector: scintillator, 2.5 cm diameter x 1 mm thick NaI(Tl) crystal
- photomultiplier tube: 3.8 cm diameter

Read more about the Model 44-3 NAL Low Energy Gamma Scintillator on the [Ludlum website](#)

Model 44-2 NAL Gamma Scintillator - Ludlum



The Model 44-2 NAL Gamma Scintillator (Ludlum) is a detector for low-level, wide-energy gamma radiation survey.



Model 44-2 NAL Gamma Scintillator features:

- detector: scintillator, 2.5 x 2.5 cm (1 x 1 in.) (Dia x L) thick NaI
- efficiency: 125I for 7%; 57Co for 10%; 137Cs for 3%; 60Co for 3%
- sensitivity: 175 cpm/ μ R/hr (137Cs gamma)
- background: 1800 cpm
- photomultiplier tube: 2.86 cm (1.125 in.) diameter, magnetically shielded

Read more about the Model 44-2 NAL Gamma Scintillator on the [Ludlum website](#)

Model 44-1 Beta Scintillator - Ludlum



The Model 44-1 Beta Scintillator (Ludlum) is a detector for beta radiation survey.



Model 44-1 Beta Scintillator features:

- window area: 9.7 cm² active and open
- efficiency (4π): 7% for 14C
- background (10 μR/hr): 100 cpm
- weight: 0.3 kg
- detector type: 4.3 x 0.03 cm (1.7 x 0.01 in.) (Dia x L) plastic scintillator

Read more about the Model 44-1 Beta Scintillator on the [Ludlum website](#)

Model 44-38 Energy Compensated GM Detector - Ludlum



The Model 44-38 Energy Compensated GM Detector (Ludlum) is a device for beta and gamma radiation survey.



Model 44-38 Energy Compensated GM Detector features:

- weight: 0.5 kg
- detector: 30–45 mg/cm² stainless steel wall halogen quenched GM
- sensitivity: 1200 cpm per mR/hr (137Cs gamma) with window closed
- range: $\pm 10\%$ up to 50 mR/hr without DTC and up to 500 mR/hr with DTC
- background: 25 cpm open, 20 cpm closed
- gamma energy response (window closed): within 20% of 137Cs (662 keV) from 60 keV to 1.3 MeV

Read more about the Model 44-38 Energy Compensated GM Detector on the [Ludlum website](#)



Model 44-9 Ambient Dose Equivalent Filter - Ludlum

The Model 44-9 Ambient Dose Equivalent Filter (Ludlum) is an expansion on the Model 44-9 Pancake GM Detector. It is an energy compensation filter that flattens the energy response to facilitate measuring Ambient Equivalent Dose.



Model 44-9 Ambient Dose Equivalent Filter features:

- can be purchased separately or together with a Model 44-9 Pancake GM Detector
- flattens the response to within $\pm 20\%$ referenced to ^{137}Cs (662 keV) over an energy range of 20 keV to 1.2 MeV
- easy to mount and remove

Dose Equivalent Filter Response (green line):

Read more about the Model 44-9 Ambient Dose Equivalent Filter on the [Ludlum website](#)

Model 44-9 Exposure Filter Kit - Ludlum



The Model 44-9 Exposure Filter Kit (Ludlum) is an expansion on the Model 44-9 Pancake GM Detector. It is an energy compensation filter that flattens the energy response to facilitate measuring exposure.



Model 44-9 Exposure Filter Kit features:

- flattens the response to within $\pm 20\%$ referenced to ^{137}Cs (662 keV) over an energy range of 33 keV to 1.2 MeV
- easy to mount and remove
- filter can be purchased separately or together with a Model 44-9 Pancake GM Detector

Exposure Filter Response (blue line):

Read more about the Model 44-9 Exposure Filter Kit on the [Ludlum website](#)

Model 44-9 Pancake GM Detector - Ludlum



The Model 44-9 Pancake GM Detector (Ludlum) is proven to be the most popular radiation detector used throughout the world. This detector is sensitive to alpha, beta and gamma radiation. The Model 44-9 Pancake GM Detector is enclosed within a rough metal cage but sized and shaped very convenient. It is ideal for checking contamination on people and objects.



Model 44-9 Pancake GM Detector features:

- window area: 15.51 cm² (2.4 in²) active, 12.26 cm² (1.9 in²) open
- pancake-type, halogen-quenched GM detector
- efficiency (4π): 5% for 14C; 22% for 90Sr/90Y; 19% for 99Tc; 32% for 32P; 15% for 239Pu, ≤ 1% for 99mTc; 0.2% for 125I
- sensitivity (137Cs gamma): 3300 cpm/mR/hr
- weight: 0,5 kg

Read more about the Model 44-9 Pancake GM Detector on the [Ludlum website](#)



Model 44-7 Alpha Beta Gamma Detector - Ludlum

The Model 44-7 Alpha Beta Gamma Detector (Ludlum) is a device for alpha, beta and gamma survey (sample counting).



Model 44-7 Alpha Beta Gamma Detector features:

- end window, halogen-quenched GM detector
- 6 cm² (0.93 in²) active; 5 cm² (0.78 in²) open window area
- 1.7 ± 0.3 mg/cm² mica window
- 2% for ¹⁴C; 10% for ⁹⁰Sr/⁹⁰Y; 7% for ⁹⁹Tc; 7% for ²³⁹Pu; 0.1% for ¹²⁵I efficiency (4π)
- 2100 cpm/mR/hr sensitivity (¹³⁷Cs gamma)
- anodized aluminum housing
- 0.5 kg weight

Read more about the Model 44-7 Alpha Beta Gamma Detector on the [Ludlum website](#)

Model 43-92 Alpha Scintillator - Ludlum



The Model 43-92 Alpha Scintillator (Ludlum) is a device for alpha contamination survey.



Model 43-92 Alpha Scintillator features:

- window area: active: 100 cm² (15.5 in²) open: 88 cm² (13.6 in²)
- weight: 0.5 kg
- window: 0.8 mg/cm² metalized polyester (1.2 mg/cm² recommended for outdoor use)
- scintillator: ZnS(Ag)
- efficiency (4π): typically 20% for ²³⁹Pu
- removable protective screen
- background radiation: 3 cpm or less
- photomultiplier tube: 2.9 cm (1.13 in.) diameter

Read more about the Model 43-92 Alpha Scintillator on the [Ludlum website](#)

Model 43-65 Alpha Scintillator - Ludlum



The Model 43-65 Alpha Scintillator (Ludlum) is a detector designed for alpha radiation survey when used in combination with a general purpose survey meter, ratemeter or scaler instrument.



Model 43-65 Alpha Scintillator features:

- 63 cm² active; 50 cm² open (window area)
- ZnS(Ag) scintillator
- 0.8 mg/cm² metalized polyester window
- 3.8 cm (1.5 in.) diameter photomultiplier tube
- efficiency (4 π): 17% for ²³⁹Pu; 17% for ²³⁰Th

Read more about the Model 43-65 Alpha Scintillator on the [Ludlum website](#)



Centronic Nuclear was founded more than 70 years ago and has over 40 years experience in the development of semiconductor and gas-filled detectors. For example GM, X-ray, He3 / BF3 neutron and ion chambers for a wide range of applications in Electro-Optical and ionizing radiation detection.

Product offering

Alpha, Beta & Gamma Detectors - Centronic



Gamma Detectors - Centronic



Alpha, Beta & Gamma Detectors - Centronic



The Alpha, Beta & Gamma Detectors (Centronic) are used for the detection of radiation at low dose rates. This range of mica-window tubes is used for monitoring all types of radiation in a wide variety of environments.



Alpha, Beta & Gamma Detectors features:

- circuitry simple
- robust build
- available with compensating filter

Contact our product specialist or download the datasheet below.

Gamma Detectors - Centronic



The Gamma Detectors (Centronic) are used for the detection of radiation at low dose rates. These tubes are suitable for use in environmental monitoring, and for sweeping areas which may have traces of radioactive sources on them.



Gamma Detectors features:

- robust construction
- simple circuitry
- available with compensating filter
- ambient dose compensated versions available

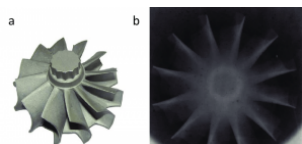
Contact our product specialist or download the datasheet below.



Ashland is a global leader in specialty materials, offering innovative solutions that enhance safety, precision, and patient outcomes across various medical disciplines. Their portfolio supports healthcare providers in radiation therapy, diagnostic imaging, wound care, and regenerative medicine.

Product offering

Gafchromic XR-SP2 Industrial Radiographic Film - Ashland

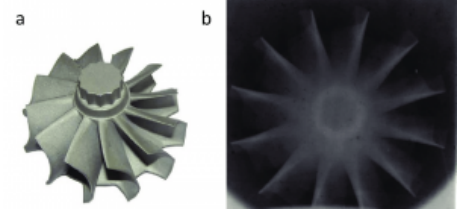


Gafchromic XR-SP2 Industrial Radiographic Film - Ashland



Ashland designed XR-SP2 Industrial Radiographic Film specially for the current demand for security and industrial x-ray imaging applications.

This film is particularly effective in field applications and remote environments, for example, security and non-destructive testing (NDT). This film is at your service when other imaging may not be available.



FILM SENSITIVITY

The film's response depends on the output spectrum of the x-ray generator, or the type and strength of the isotopes. But it also depends on the thickness and composition of the object that you are imaging.

XR-SP2 BENEFITS

- Stand-alone imaging tool
- No screens required
- No cassettes required
- Instantly self-developing
- Resolution >10 microns
- Water and scratch resistant
- Usable in daylight
- Can withstand temperatures from 4,5 °C to 60°C (40°F to 140°F)
- Stable in real world environment
- The shelf life is over a year

This film comes in boxes of 10 pc. and it's available in two sizes:

- 20,32 cm x 25,4 cm (8" x 10")
- 25,4 cm x 30,48 cm (10" x 12")

For more information on Ashland radiology film...

[Go here!](#)



Polimaster is a global provider of radiation monitoring solutions, offering advanced dosimetry and detection technologies tailored for the medical field. Their instruments assist healthcare professionals in maintaining safety and compliance in environments where radiation exposure is a concern.

Product offering

RadFlash® Electronic Personal Dosimeter



RadFlash® Electronic Personal Dosimeter





Product offering

HPGE and Si(Li) detector accessories



Model 43-5 Alpha Scintillator - Ludlum



HPGE and Si(Li) detector accessories



Ortec HPGE and Si(Li) detector accessories extend the performance of your system. You can choose from several categories including:

- LN2 Accessories
- accessories for X-COOLER III
- shields
- other Accessories

Do you want to know more about the HPGE and Si(Li) detector accessories?

If you want to continue your search for additional information on this product try this [link](#).



Model 43-5 Alpha Scintillator - Ludlum



The Model 43-5 Alpha Scintillator (Ludlum) is a detector developed for alpha radiation survey when used with a common purpose survey meter, ratemeter or scaler instrument. The detector housing is assembled of aluminum alloy with beige powder coat for easy maintenance and durability.



Model 43-5 Alpha Scintillator features:

- efficiency (4π): 13% for ^{239}Pu
- scintillator: ZnS(Ag)
- 0.8 mg/cm^2 metalized polyester window
- background: 3 cpm or less
- weight: 0.9 kg
- window area: 76 cm^2 (11.9 in^2) active, 50 cm^2 (7.8 in^2) open

Read more about the Model 43-5 Alpha Scintillator on the [Ludlum website](#)