

# Markets for Radiation Detection Equipment

<https://marketpublishers.com/r/MEA10697EC0EN.html>

Date: June 2013

Pages: 180

Price: US\$ 1,995.00 (Single User License)

ID: MEA10697EC0EN

## Abstracts

21st century civilization will rely more and more on effectively harnessing and developing the technologies that ionizing radiation has to offer. Even if weapons and power plants went away in the next 100 years, humanity would still rely on ionizing radiation to diagnose and treat disease, deliver safe food, and seek out carbon based energy sources. Sensors would still be employed in transportation corridors, shipping vehicles, and border security. Radiation detection, like the integrated circuit, may be mature technology, but it continues to deliver value and evolve with changing needs.

NanoMarkets broke new ground with our report on radiation detection materials, but those materials are only part of the radiation sensor story. NanoMarkets now moves downstream to the devices themselves to see how the evolution of new material technologies and data processing intersect with the trends in the end-markets to deliver new form-factors, better performance, and lower cost. This report illustrates the trends in radiation sensors employed in four key applications arenas: medical detection and imaging, nuclear security and safety, energy and industrial applications, and scientific measurement and testing.

Within this report, NanoMarkets delivers eight-year forecasts for key sensors used in radiation detection applications, such as medical gamma cameras, RIIDS, portal monitors, PET detectors, oil exploration and scientific sensors (et.al.). All demand forecasts are segmented by device type and world region. Readers of this report will understand macro-market drivers affecting technological changes and understand where technology push may be forcing disruptive changes. Key participant organizations will be profiled to illustrate their strategies and needs in this diverse market.

NanoMarkets believes that executives and entrepreneurs, business development and product development professionals, as well as investors and inventors involved with

radiation sensor equipment OEMs, electronics or materials providers, as well as device end users, will benefit from this comprehensive analysis.

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