Radiation Monitoring and Safety Market by Product (Photomultiplier Tube, Silicon Photomultiplier, Avalanche Photodiode), & by Application (Healthcare, Biotechnology, Homeland Security, Automotive, Academia) - Analysis & Global Forecast to 2020

Description: In the coming years, the radiation safety market is expected to witness the highest growth in the Asia-Pacific region. This can be attributed to high spending on homeland security in Asia, Japan's decision to continue with the use of nuclear power, high growth expected in China's nuclear power industry, presence of global and local players in the Chinese market, increasing number of nuclear power plants in India, and increasing installations of nuclear imaging systems in India.

North America is expected to account for the largest share of the global radiation safety market. This can be attributed to the increasing prevalence of cancer, rising adoption of nuclear imaging systems, government initiatives and increase in the number of nuclear power plants in the U.S., growing security concerns, and rising number of conferences.

The report segments the radiation safety market based on product, application, and region.

The PMTs segment is expected to account for the largest share of the radiation safety market, by product, in 2015. This is attributed to growing research activities to increase the applications of PMTs, expansion by leading players into emerging markets, and increasing number of nuclear power plants. However, the SiPMs segment is also expected to grow at the highest rate during the forecast period.

This is mainly due to its benefits over other detectors, increasing research activities, and growing number of SiPM-related conferences and webinars. Due to their distinguished properties, especially their high quantum efficiency as compared to established PMTs and higher gain compared to APDs, they can potentially replace PMTs and APDs in many applications.

Hamamatsu Photonics K.K. (Japan), SensL Technologies (Ireland), KETEK GmbH (Germany), AdvanSiD (Italy), Excelitas Technologies Corporation (U.S.), First Sensor AG (Germany), Hainan Zhanchuang Photonics Technology Co., Ltd. (China), Ludlum Measurements, Inc. (U.S.), Philips Healthcare (Netherlands), and Radiation Monitoring Devices, Inc. (RMD) (U.S.) are some of the key players in the radiation safety market worldwide.

Scope of the Report:

This research report categorizes the global radiation safety market into the following segments:

Radiation Safety Market, by Product
- Photomultiplier Tubes (PMTs)
- Silicon Photomultipliers (SiPMs)
- Others [PIN photodiode (PIN), and Avalanche Photodiode (APD)]

Radiation Safety Market for Scintillators, by Type
- Inorganic Scintillators
- Organic Scintillators

Radiation Safety Market, by Application
- Healthcare
- Homeland Security & Defense
- Academic Research & High-energy Physics
- Automotive
- Biotechnology
- Other Applications (nuclear power plants, oil well logging, and space studies and communication)

Radiation Safety Market, by Region

- North America
  -- U.S.
  -- Canada
- Europe
  -- Germany
  -- U.K.
  -- France
  -- Spain
  -- Italy
  -- Rest of Europe (RoE)
- Asia-Pacific
  -- China
  -- Japan
  -- India
  -- Pacific Countries (Australia and New Zealand)
  -- Rest of Asia-Pacific (RoAPAC)
- Rest of the World (RoW)
  -- Latin America
  -- Middle East & Africa

Stakeholders of the Radiation Safety Market

- Radiation Detection, Monitoring, and Safety Devices and Accessories Manufacturing Companies
- Suppliers and Distributors of Radiation Detection, Monitoring, and Safety Devices and Accessories
- Research and Consulting Firms
- Homeland Security and Defense Departments
- Research Institutes
- Venture Capitalists

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