

# **Scintillator Market by Composition of Material, Application (Healthcare, Homeland security, Industrial application, Nuclear Power Plants, and others), End Product (Personal Instrument, Hand-Held Instruments, Fixed, and Installed Instruments) & Geography - Global Forecast and Analysis to 2013 – 2020**

<https://marketpublishers.com/r/SAB30887E9CEN.html>

Date: July 2014

Pages: 251

Price: US\$ 5,650.00 (Single User License)

ID: SAB30887E9CEN

## **Abstracts**

Scintillators are luminescent materials, which re-emit part of the absorbed energy in the form of light. The emission can be of different types: fluorescence (prompt), delayed fluorescence and phosphorescence (delayed with different wavelength). The radiation detection and monitoring has witnessed various technological advancements in recent years. This advancement has led to the rise in the market for the various applications such as nuclear power plants, homeland security, medical, healthcare, and industrial inspections that have been discussed in this report. These applications require scintillation detectors to measure the radiation. Among these applications, homeland security, healthcare, and nuclear power plants are the top-rated applications for the scintillator market. The major drivers for scintillator development with regards to the various applications are high resolution, cost, and size that lead to new scintillator production.

The segmentation based on the products consists of sample counters, survey meters, area monitor, and portal monitor, among others. The future growth and development of these product segments with respect to scintillators is described in this report. The two basic types of scintillator materials, namely organic as well as inorganic, along with their various states and composition such as liquid, plastics, crystals, and gaseous are also well described in this report. The various future opportunities and developments in this market featuring the future demand for scintillators are highlighted with respect to the

current market scenario.

The report covers major regions such as Americas, Europe, APAC, and Rest of the World (ROW). Among all these regions, Americas is estimated to hold the major share owing to the growing security concerns and increasing number of nuclear power plants in this region; as the U.S. accounted for over 30% of the nuclear electricity generation across the globe. However, in near future, it is expected that the APAC market will grow at a significant rate due to the nuclear power developments and security reasons which will boost the market for inorganic scintillators.

Some of the major players in the scintillator market include Canberra Industries Inc. (U.S.), Hamamatsu Photonics K.K. (Japan), Hitachi Metals Ltd. (Japan), Ludlum Measurements Inc. (U.S.), Mirion Technologies Inc. (U.S.), Radiation Monitoring Devices (U.S.), Saint Gobain (France), and Zecotek Photonics (Canada), among others.

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES
- 1.2 MARKETS COVERED
- 1.3 STAKEHOLDERS
- 1.4 RESEARCH METHODOLOGY
  - 1.4.1 MARKET SIZE ESTIMATION
  - 1.4.2 KEY POINTS TAKEN FROM THE SECONDARY SOURCES
  - 1.4.3 KEY POINTS TAKEN FROM THE PRIMARY SOURCES
  - 1.4.4 ASSUMPTIONS MADE FOR THIS REPORT
  - 1.4.5 LIST OF COMPANIES COVERED DURING PRIMARIES

### 2 EXECUTIVE SUMMARY

### 3 COVER STORY: EXPERT INTERVIEW

- 3.1 APPLIED SCINTILLATION TECHNOLOGIES
- 3.2 HORIBA INSTRUMENTS INC.

### 4 MARKET OVERVIEW

- 4.1 MARKET DEFINITION
- 4.2 HISTORY AND EVOLUTION
- 4.3 MARKET DYNAMICS
  - 4.3.1 MARKET DRIVERS
    - 4.3.1.1 Demand for low cost and high performance scintillators
    - 4.3.1.2 Growing safety concerns in the wake of Fukushima disaster
    - 4.3.1.3 Rising demand of existing and new radiological medical applications
    - 4.3.1.4 Increasing investments for radiation monitoring in homeland security
  - 4.3.2 RESTRAINTS
    - 4.3.2.1 Human capital crisis among radiation safety professionals
    - 4.3.2.2 Competition from direct radiation conversion technologies
  - 4.3.3 OPPORTUNITIES
    - 4.3.3.1 Growing Need for neutron detection alternative to Helium-3
    - 4.3.3.2 Proposed increase in the number of nuclear power plants particularly in India and China
- 4.4 BURNING ISSUE

#### 4.4.1 INTELLECTUAL PROPERTY RIGHTS AND LEGAL FRAMEWORKS LIMIT USE OF SCINTILLATOR BASED DETECTORS

#### 4.5 WINNING IMPERATIVE

##### 4.5.1 COMBINED DETECTORS OR SEMICONDUCTOR SCINTILLATORS OFFER NEW OPPORTUNITIES FOR X-RAY AND GAMMA RAY DETECTION

#### 4.6 VALUE CHAIN ANALYSIS

#### 4.7 PORTER'S FIVE FORCES MODEL FOR THE SCINTILLATOR MARKET

##### 4.7.1 DEGREE OF COMPETITION

##### 4.7.1 BARGAINING POWER OF BUYERS

##### 4.7.2 BARGAINING POWER OF SUPPLIERS

##### 4.7.3 THREAT FROM SUBSTITUTES

##### 4.7.4 THREAT OF NEW ENTRANTS

### **5 SCINTILLATOR MARKET ANALYSIS, BY COMPOSITION OF MATERIAL**

#### 5.1 INTRODUCTION

#### 5.2 IN-ORGANIC SCINTILLATOR

##### 5.2.1 ALKALI HALIDES

##### 5.2.1.1 Thallium Doped Sodium Iodide: NaI(Tl)

##### 5.2.1.2 Thallium Doped Cesium Iodide: CsI(Tl)

##### 5.2.1.3 Sodium Doped Cesium Iodide: CsI(Na)

##### 5.2.1.4 Un-doped Cesium Iodide: CsI

##### 5.2.1.5 Europium Doped LiI or LiI(Eu)

##### 5.2.2 OXIDE BASED SCINTILLATORS

##### 5.2.2.1 Bismuth Germanate ( $\text{Bi}_4\text{Ge}_3\text{O}_{12}$ or BGO)

##### 5.2.2.2 Gadolinium Silicate $\text{Gd}_2\text{SiO}_5$ (Ce) or (GSO)

##### 5.2.2.3 Cadmium Tungstate ( $\text{CdWO}_4$ or CWO)

##### 5.2.2.4 Lead Tungstate ( $\text{PbWO}_4$ or PWO)

##### 5.2.3 OTHER INORGANIC SCINTILLATORS

##### 5.2.3.1 Glass Scintillators: (Cerium activated lithium silicate)

##### 5.2.3.2 Cerium Activated Lanthanum Bromide ( $\text{LaBr}_3$ )

#### 5.3 ORGANIC SCINTILLATOR

##### 5.3.1 SINGLE CRYSTAL

##### 5.3.2 LIQUID SCINTILLATORS

##### 5.3.3 PLASTIC SCINTILLATORS

### **6 SCINTILLATOR MARKET ANALYSIS, BY APPLICATION**

#### 6.1 INTRODUCTION

- 6.2 HEALTHCARE
- 6.3 HOMELAND SECURITY
- 6.4 NUCLEAR POWER PLANTS
- 6.5 INDUSTRIAL APPLICATION
- 6.6 OTHERS

## **7 SCINTILLATOR MARKET ANALYSIS, BY END PRODUCT**

- 7.1 INTRODUCTION
- 7.2 PERSONAL OR POCKET SIZE INSTRUMENTS
  - 7.2.1 POCKET DOSIMETER
    - 7.2.1.1 Non self-reading dosimeters
      - 7.2.1.1.1 Film badges
      - 7.2.1.1.2 Thermo-Luminescent Dosimeters (TLD)
      - 7.2.1.1.3 Optically Stimulated Luminescence (OSL) dosimeter
    - 7.2.1.2 Self-reading dosimeters
- 7.3 HAND-HELD INSTRUMENTS
  - 7.3.1 RADIO-ISOTOPE IDENTIFICATION DEVICES (RIID)
  - 7.3.2 SURVEY METER
  - 7.3.3 SPECTROMETER
- 7.4 FIXED, INSTALLED, AND AUTOMATIC INSTRUMENTS
  - 7.4.1 CONTAMINATION MONITORS
    - 7.4.1.1 Area monitor
    - 7.4.1.2 Air monitor
  - 7.4.2 PORTAL MONITOR
  - 7.4.3 NON PORTABLE SPECTROMETER
  - 7.4.4 MEDICAL IMAGING DEVICES

## **8 GEOGRAPHIC ANALYSIS**

- 8.1 INTRODUCTION
- 8.2 AMERICAS
  - 8.2.1 MAJOR PLAYERS IN AMERICAS
- 8.3 EUROPE
  - 8.3.1 MAJOR PLAYERS IN EUROPE
- 8.4 APAC
  - 8.4.1 MAJOR PLAYERS IN APAC
- 8.5 ROW

## **9 COMPETITIVE LANDSCAPE**

### **9.1 INTRODUCTION**

9.1.1 KEY GROWTH STRATEGIES

9.1.2 MAJOR COMPANIES AND THEIR RANKINGS

9.1.3 NEW PRODUCT DEVELOPMENTS/LAUNCHES

9.1.4 OTHERS (EXPANSIONS AND AWARDS)

9.1.5 PATENTS IN SCINTILLATOR MARKET

9.1.6 MERGERS AND ACQUISITIONS IN SCINTILLATOR MARKET

9.1.7 PARTNERSHIPS, AGREEMENTS, AND JOINT VENTURES IN SCINTILLATOR MARKET

9.1.8 CONTRACTS IN SCINTILLATOR REPORT

## **10 COMPANY PROFILES (OVERVIEW, PRODUCTS AND SERVICES, FINANCIALS, STRATEGY & DEVELOPMENT)**

10.1 APPLIED SCINTILLATION TECHNOLOGIES LTD.

10.2 ARGUS IMAGING BV INC.

10.3 CANBERRA INDUSTRIES

10.4 HAMAMATSU PHOTONICS

10.5 HITACHI METALS LTD

10.6 LUDLUM MEASUREMENTS INC.

10.7 MIRION TECHNOLOGIES INC.

10.8 RADIATION MONITORING DEVICES INC

10.9 REXON COMPONENTS AND TLD SYSTEMS INC.

10.10 SAINT GOBAIN

10.11 ZECOTEK PHOTONICS INC (Details on Overview, Products and Services, Financials, Strategy & Development might not be Captured in case of Unlisted Companies.)

## List Of Tables

### LIST OF TABLES

TABLE 1 GLOBAL SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 2 GLOBAL SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 3 IMPACT ANALYSIS OF THE MARKET DRIVERS

TABLE 4 IMPACT ANALYSIS OF RESTRAINTS

TABLE 5 ALTERNATIVES TO HE-3 FOR NEUTRON DETECTION

TABLE 6 SCINTILLATOR MARKET SIZE, BY COMPOSITION OF MATERIAL, 2013-2020 (\$MILLION)

TABLE 7 INORGANIC SCINTILLATOR MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

TABLE 8 INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 9 ALKALI HALIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

TABLE 10 ALKALI HALIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 11 THALIUM DOPED SODIUM IODIDE INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 12 THALLIUM DOPED CESIUM IODIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 13 SODIUM DOPED CESIUM IODIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 14 UN-DOPED CESIUM IODIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 15 EUROPIUM DOPED LITHIUM IODIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 16 PHYSICAL PROPERTIES OF ALKALI HALIDE INORGANIC SCINTILLATORS

TABLE 17 ALKALI METAL INORGANIC SCINTILLATORS WITH APPLICATIONS

TABLE 18 OXIDE BASED: INORGANIC SCINTILLATOR MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

TABLE 19 OXIDE BASED: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 20 BGO: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION,

2013-2020 (\$MILLION)

TABLE 21 GSO: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 22 CWO: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 23 PWO: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 24 PHYSICAL PROPERTIES OF SELECT OXIDE BASED INORGANIC SCINTILLATORS

TABLE 25 OXIDE BASED INORGANIC SCINTILLATORS WITH APPLICATIONS

TABLE 26 OTHERS: INORGANIC SCINTILLATOR MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

TABLE 27 OTHERS: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 28 GLASS: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 29 LANTHANUM BROMIDE: INORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 30 ORGANIC SCINTILLATOR MARKET SIZE, BY TYPE, 2013-2020 (\$MILLION)

TABLE 31 ORGANIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 32 SINGLE CRYSTAL SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 33 LIQUID SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 34 PLASTIC SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 35 PROPERTIES OF ORGANIC SCINTILLATORS

TABLE 36 APPLICATIONS OF SCINTILLATORS

TABLE 37 GLOBAL SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 38 SCINTILLATOR MARKET SIZE IN HEALTHCARE, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 39 SCINTILLATOR MARKET SIZE IN HEALTHCARE, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 40 SCINTILLATOR MARKET SIZE IN HOMELAND SECURITY, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 41 SCINTILLATOR MARKET SIZE IN HOMELAND SECURITY, BY



GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 42 SCINTILLATOR MARKET SIZE IN NUCLEAR POWER PLANT, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 43 SCINTILLATOR MARKET SIZE IN NUCLEAR POWER PLANT, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 44 SCINTILLATOR MARKET SIZE IN INDUSTRIAL, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 45 SCINTILLATOR MARKET REVENUE IN INDUSTRIAL, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 46 SCINTILLATOR MARKET SIZE IN OTHER APPLICATIONS, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 47 SCINTILLATOR MARKET SIZE IN OTHER APPLICATIONS, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 48 SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 49 SCINTILLATOR MARKET SIZE IN PERSONAL/POCKET SIZE SYSTEMS, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 50 SCINTILLATOR MARKET SIZE IN PERSONAL/POCKET SIZE SYSTEMS, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 51 SCINTILLATOR MARKET SIZE IN HAND-HELD INSTRUMENTS, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 52 SCINTILLATOR MARKET SIZE IN HAND-HELD INSTRUMENTS, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 53 SCINTILLATOR MARKET SIZE FOR FIXED, INSTALLED, AUTOMATIC INSTRUMENTS, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 54 SCINTILLATOR MARKET SIZE FOR FIXED, INSTALLED, AUTOMATIC INSTRUMENTS, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 55 GLOBAL SCINTILLATOR MARKET SIZE, BY GEOGRAPHY, 2013-2020 (\$MILLION)

TABLE 56 AMERICAS: SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 57 AMERICAS: SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020 (\$MILLION)

TABLE 58 AMERICAS: SCINTILLATOR MARKET SIZE, BY REGION, 2013-2020 (\$MILLION)

TABLE 59 AMERICAS: SCINTILLATOR MARKET SIZE, BY COUNTRY, 2013-2020 (\$MILLION)

TABLE 60 EUROPE: SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020 (\$MILLION)

TABLE 61 EUROPE: SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020  
(\$MILLION)

TABLE 62 EUROPE: SCINTILLATOR MARKET SIZE, BY COUNTRY, 2013-2020  
(\$MILLION)

TABLE 63 APAC: SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020  
(\$MILLION)

TABLE 64 APAC: SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020  
(\$MILLION)

TABLE 65 APAC: SCINTILLATOR MARKET SIZE, BY COUNTRY, 2013-2020  
(\$MILLION)

TABLE 66 ROW: SCINTILLATOR MARKET SIZE, BY END PRODUCT, 2013-2020  
(\$MILLION)

TABLE 67 ROW: SCINTILLATOR MARKET SIZE, BY APPLICATION, 2013-2020  
(\$MILLION)

TABLE 68 ROW: SCINTILLATOR MARKET SIZE, BY COUNTRY, 2013-2020  
(\$MILLION)

TABLE 69 MARKET RANKINGS OF THE KEY PLAYERS IN 2013 (\$BILLION)

TABLE 70 NEW PRODUCT DEVELOPMENTS/LAUNCHES, 2011-2013

TABLE 71 OTHERS (EXPANSIONS AND AWARDS), 2011-2014

TABLE 72 PATENTS, 2011-2014

TABLE 73 MERGERS AND ACQUISITIONS, 2011-2014

TABLE 74 PARTNERSHIPS, AGREEMENTS AND JOINT VENTURES, 2011-2014

TABLE 75 CONTRACTS, 2011-2013

TABLE 76 HITACHI METALS' CERAMIC SCINTILLATOR INFORMATION

## List Of Figures

### LIST OF FIGURES

- FIGURE 1 SCINTILLATOR MARKET SEGMENTATION
- FIGURE 2 RESEARCH METHODOLOGY
- FIGURE 3 MARKET SIZE ESTIMATION
- FIGURE 4 MARKET CRACKDOWN & DATA TRINANGULATION
- FIGURE 5 PROCESS OF RADIATION DETECTION
- FIGURE 6 SCINTILLATOR MARKET SEGMENTATION
- FIGURE 7 TIMELINE OF SCINTILLATOR DEVELOPMENT
- FIGURE 8 SCINTILLATOR MARKET VALUE CHAIN
- FIGURE 9 PORTER'S FIVE FORCES ANALYSIS FOR THE SCINTILLATOR MARKET
- FIGURE 10 DEGREE OF COMPETITION IN SCINTILLATOR MARKET
- FIGURE 11 BARGAINING POWER OF THE BUYER IN THE SCINTILLATOR MARKET
- FIGURE 12 BARGAINING POWER OF THE SUPPLIER IN SCINTILLATOR MARKET
- FIGURE 13 THREAT FROM SUBSTITUTES IN THE SCINTILLATOR MARKET
- FIGURE 14 THREAT OF NEW ENTRANTS IN THE SCINTILLATOR MARKET
- FIGURE 15 DIFFERENCE BETWEEN ORGANIC AND INORGANIC SCINTILLATORS
- FIGURE 16 SCINTILLATOR MARKET SEGMENTATION BY COMPOSITION OF MATERIAL
- FIGURE 17 MARKET SEGMENTATION, BY APPLICATION
- FIGURE 18 MARKET SEGMENTATION, BY END PRODUCT
- FIGURE 19 SCINTILLATOR MARKET, BY GEOGRAPHY
- FIGURE 20 AMERICAS SCINTILLATOR MARKET, BY COUNTRY
- FIGURE 21 EUROPE SCINTILLATOR MARKET, BY COUNTRY
- FIGURE 22 APAC SCINTILLATOR MARKET, BY COUNTRY
- FIGURE 23 ROW SCINTILLATOR MARKET, BY COUNTRY
- FIGURE 24 SCINTILLATOR MARKET: COMPETITIVE LANDSCAPE
- FIGURE 25 KEY GROWTH STRATEGIES IN SCINTILLATOR MARKET
- FIGURE 26 APPLIED SCINTILLATION TECHNOLOGIES: PRODUCTS
- FIGURE 27 APPLIED SCINTILLATION TECHNOLOGIES: MARKETS SERVED
- FIGURE 28 ARGUS IMAGING BV INC: BUSINESS SEGMENT
- FIGURE 29 ARGUS IMAGING BV INC.: SERVICES
- FIGURE 30 CANBERRA INDUSTRIES : PRODUCTS AND APPLICATIONS
- FIGURE 31 HAMAMATSU PHOTONIC K.K.: COMPANY SNAPSHOT
- FIGURE 32 HAMAMATSU PHOTONICS K.K. : BUSINESS DIVISION AND PRODUCTS
- FIGURE 33 HAMAMATSU PHOTONICS K.K. : SWOT ANALYSIS

FIGURE 34 HITACHI METALS: COMPANY SNAPSHOT  
FIGURE 35 HITACHI METALS LTD: OPERATING SEGMENTS  
FIGURE 36 HITACHI METALS LTD: PRODUCT PORTFOLIO  
FIGURE 37 HITACHI METALS LTD: SWOT ANALYSIS  
FIGURE 38 LUDLUM MEASUREMENTS INC: PRODUCTS AND APPLICATIONS  
FIGURE 39 MIRION TECHNOLOGIES : COMPANY SNAPSHOT  
FIGURE 40 MIRION TECHNOLOGIES INC. : PRODUCTS AND APPLICATIONS  
FIGURE 41 MIRION TECHNOLOGIES INC.: SWOT ANALYSIS  
FIGURE 42 RADIATION MONITORING DEVICES INC: BUSINESS DIVISION  
FIGURE 43 RADIATION MONITORING DEVICES INC: RADIATION DETECTION AND IMAGING MATERIALS  
FIGURE 44 RADIATION MONITORING DEVICES INC.: PRODUCT PORTFOLIO  
FIGURE 45 REXON COMPONENTS AND TLD SYSTEMS INC.: PRODUCTS  
FIGURE 46 SAINT GOBAIN: COMPANY SNAPSHOT  
FIGURE 47 SAINT GOBAIN: OPERATING SEGMENTS  
FIGURE 48 SAINT GOBAIN: RADIATION DETECTION PRODUCT PORTFOLIO  
FIGURE 49 SAINT GOBAIN: SWOT ANALYSIS  
FIGURE 50 ZECOTEK PHOTONICS INC: COMPANY SNAPSHOT  
FIGURE 51 ZECOTEK PHOTONICS INC: BUSINESS SEGMENT  
FIGURE 52 ZECOTEK PHOTONICS: SWOT ANALYSIS

## I would like to order

Product name: Scintillator Market by Composition of Material, Application (Healthcare, Homeland security, Industrial application, Nuclear Power Plants, and others), End Product (Personal Instrument, Hand-Held Instruments, Fixed, and Installed Instruments) & Geography - Global Forecast and Analysis to 2013 – 2020

Product link: <https://marketpublishers.com/r/SAB30887E9CEN.html>

Price: US\$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SAB30887E9CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970