

Global Plastic Scintillation Fiber Optic Detector Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Plastic Scintillation Fiber Optic Detector market size was valued at US\$ 34.05 million in 2025 and is forecast to a readjusted size of US\$ 51.45 million by 2032 with a CAGR of 6.1% during review period.

Plastic scintillation fiber optic detectors are radiation detection devices centered around a plastic scintillator and optical fiber. When high-energy particles or rays pass through the material, they generate scintillation light, which is transmitted via optical fiber to optoelectronic devices to detect radiation intensity, location, or time. They feature fast response, flexibility, and low cost.

Upstream industries mainly include scintillation plastic raw materials, optical-grade polymers, wavelength-shifting dyes, optical fiber materials, and optoelectronic sensor chips. Downstream applications are concentrated in high-energy physics experiments, nuclear medicine imaging, industrial non-destructive testing, radiation monitoring, security inspection, and scientific research instruments.

In 2025, the global market price for plastic scintillation fiber optic detectors was \$2068 per unit, with annual sales of approximately 16,000 units and a global annual production capacity of 18,000 units. The industry profit margin was 25%.

This report is a detailed and comprehensive analysis for global Plastic Scintillation Fiber Optic Detector market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Plastic Scintillation Fiber Optic Detector market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Scintillation Fiber Optic Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Scintillation Fiber Optic Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plastic Scintillation Fiber Optic Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Plastic Scintillation Fiber Optic Detector

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Plastic Scintillation Fiber Optic Detector market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-Gobain Crystals, Eljen Technology, Kuraray, Hamamatsu Photonics, CAEN, Detec, Mirion Technologies, Scionix, NUCTECH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Plastic Scintillation Fiber Optic Detector market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Intrinsic Scintillation Fiber Type

Wavelength Shifted Fiber (WLS) Type

Composite Scintillation Fiber Type

Market segment by Detector Structure

Single Fiber Detector

Fiber Bundle Detector

Array/Ribbon Structure

Modular Splicing Structure

Market segment by Photoelectric Readout Methods

Photomultiplier Tube (PMT) Readout

Silicon Photomultiplier (SiPM) Readout

Avalanche Photodiode (APD) Readout

Market segment by Application

High Energy Physics Experiments

Nuclear Medicine Imaging

Industrial Non-Destructive Testing

Safety Inspection

Other

Major players covered

Saint-Gobain Crystals

Eljen Technology

Kuraray

Hamamatsu Photonics

CAEN

Detec

Mirion Technologies

Scionix

NUCTECH

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Global Plastic Scintillation Fiber Optic Detector Market 2026 by Manufacturers, Regions, Type and Application,...

Chapter 1, to describe Plastic Scintillation Fiber Optic Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plastic Scintillation Fiber Optic Detector, with price, sales quantity, revenue, and global market share of Plastic Scintillation Fiber Optic Detector from 2021 to 2026.

Chapter 3, the Plastic Scintillation Fiber Optic Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plastic Scintillation Fiber Optic Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Plastic Scintillation Fiber Optic Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Plastic Scintillation Fiber Optic Detector.

Chapter 14 and 15, to describe Plastic Scintillation Fiber Optic Detector sales channel, distributors, customers, research findings and conclusion.

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