

Global NIR Optical Separator 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 NIR Optical Separator market size was valued at US\$ 740 million in 2025 and is forecast to a readjusted size of US\$ 1295 million by 2032 with a CAGR of 8.3% during review period.

In 2025, global NIR Optical Separator production reached approximately 3.6k units , with an average global market price of around US\$200k per unit.

NIR Optical Separators are advanced automated sorting systems based on Near-Infrared Spectroscopy (NIR), machine vision, and artificial intelligence algorithms for intelligent material detection and automated separation. These systems are widely used in food processing, grain sorting, plastic recycling, ore classification, traditional Chinese medicine processing, chemical raw material screening, and resource recycling industries. The equipment works by projecting near-infrared light onto target materials. Due to differences in molecular structure, chemical composition, and moisture content, different materials exhibit unique absorption, reflection, and transmission characteristics at specific near-infrared wavelengths. Combined with high-sensitivity photoelectric sensors, high-speed image acquisition systems, deep-learning algorithms, and high-speed air-jet ejection mechanisms, the system can automatically identify and precisely separate foreign materials, impurities, moldy particles, different plastic materials, and substances with varying chemical compositions. Compared with traditional color sorters, NIR Optical Separators can not only identify color differences but also detect internal composition, material properties, and organic characteristics, making them highly suitable for high-value agricultural processing, recycled resource sorting, and industrial intelligent separation applications. With the continuous development of artificial intelligence, machine vision, hyperspectral imaging, and industrial automation

technologies, NIR Optical Separators are evolving toward hyperspectral systems, multi-sensor integration, high-speed intelligent sorting, low-energy consumption, and cloud-based data management, becoming one of the core technologies in modern intelligent sorting equipment.

The upstream segment of the NIR Optical Separator industry mainly includes suppliers of near-infrared light sources, optical lenses, CMOS/CCD image sensors, spectral analysis modules, AI algorithm chips, high-speed ejector valves, PLC control systems, industrial cameras, semiconductor devices, conveyor systems, and precision mechanical structures. Representative companies include Hamamatsu Photonics, Sony, Omron, Keyence, Basler, NVIDIA, Intel, Siemens, and SICK AG. The midstream sector mainly consists of NIR optical separator manufacturers, intelligent sorting equipment companies, and industrial automation system integrators. Representative companies include Böhler Group, TOMRA, Satake, Meyer Optoelectronic, and Cimbrica. Downstream applications are widely distributed across food processing, grain processing, plastic recycling, ore sorting, traditional Chinese medicine processing, chemical raw material screening, and environmental resource recycling industries. Representative end-user companies include Nestlé, Cargill, Veolia, Bunge, as well as various recycling and food-processing enterprises. Overall, the industry is evolving toward hyperspectral imaging, AI intelligent recognition, multi-sensor integration, and high-speed automation, continuously driving the upgrade of intelligent sorting equipment.

The NIR Optical Separator market is currently experiencing rapid growth driven by the upgrading of industrial intelligent sorting systems and increasing demand for resource recycling solutions. As food safety standards continue to rise, plastic recycling becomes more refined, mineral resource utilization improves, and industrial automation expands, market demand for high-precision, high-speed, and intelligent sorting equipment is continuously increasing, driving the industry toward hyperspectral imaging, multi-sensor integration, and AI intelligent recognition technologies. Meanwhile, the advancement of artificial intelligence, machine vision, deep learning, and industrial internet technologies is further accelerating the penetration of NIR Optical Separators in food processing, environmental recycling, and intelligent manufacturing industries. Future market trends will increasingly focus on hyperspectral imaging, cloud-based data management, unmanned intelligent factories, and high-speed low-energy sorting systems. In addition, the development of the circular economy, green manufacturing, and environmental industry upgrades will become important growth drivers. However, the industry still faces challenges such as high costs of advanced optical components, complex system integration, high barriers to AI algorithm development, and long investment cycles in

certain downstream industries. Fluctuations in the global manufacturing economy may also impact market demand. Overall, the NIR Optical Separator industry is evolving from traditional color sorting equipment into advanced intelligent spectral sorting platforms, maintaining strong growth potential in intelligent manufacturing and resource recycling applications.

This report is a detailed and comprehensive analysis for global NIR Optical Separator 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 NIR Optical Separator market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global NIR Optical Separator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global NIR Optical Separator 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 NIR Optical Separator 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 NIR Optical Separator

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 NIR Optical Separator 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 Tomra, Pellenc ST, Mogensen, Steinert, Bulk Handling Systems, MSS, LLC, Satake, Senro, Prodecologia, Picvisa, etc.

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

Market Segmentation

NIR Optical Separator 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

Belt-type

Chute-type

Caterpillar-type

Market segment by Processing Capacity

1-3 Tons/Hour

3-6 Tons/Hour

Others

Market segment by Sorting Accuracy

>99.99%

>99.5%

>99%

Market segment by Application

Food

Chemicals

Minerals

Plastics

Major players covered

Tomra

Pellenc ST

Mogensen

Steinert

Bulk Handling Systems

MSS, LLC

Satake

Senro

Prodecologia

Picvisa

B?hler Group

Cimbria

Growking Optoelectronic

PEAKS-ECO

Zhongke Optic-electronic Color Sorter Machinery

Meyer Optoelectronic

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:

Chapter 1, to describe NIR Optical Separator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NIR Optical Separator, with price, sales quantity, revenue, and global market share of NIR Optical Separator from 2021 to 2026.

Chapter 3, the NIR Optical Separator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NIR Optical Separator 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 NIR Optical Separator 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 NIR Optical Separator.

Chapter 14 and 15, to describe NIR Optical Separator sales channel, distributors, customers, research findings and conclusion.

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