

Global NIR Optical Separator Market Growth 2026-2032

<https://marketpublishers.com/r/GC8C9A37C41CEN.html>

Date: July 2026

Pages: 145

Price: US\$ 3,660.00 (Single User License)

ID: GC8C9A37C41CEN

Abstracts

The global NIR Optical Separator market size is predicted to grow from US\$ 703 million in 2025 to US\$ 1267 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

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 B?hler Group, TOMRA, Satake, Meyer Optoelectronic, and Cimbria. 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 Nestl?, 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.

LP Information, Inc. (LPI) ' newest research report, the "NIR Optical Separator Industry Forecast" looks at past sales and reviews total world NIR Optical Separator sales in 2025, providing a comprehensive analysis by region and market sector of projected NIR Optical Separator sales for 2026 through 2032. With NIR Optical Separator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world NIR Optical Separator industry.

This Insight Report provides a comprehensive analysis of the global NIR Optical Separator landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on NIR Optical Separator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global NIR Optical Separator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NIR Optical Separator and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global NIR Optical Separator.

This report presents a comprehensive overview, market shares, and growth opportunities of NIR Optical Separator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Belt-type

Chute-type

Caterpillar-type

Segmentation by Processing Capacity:

1-3 Tons/Hour

3-6 Tons/Hour

Others

Segmentation by Sorting Accuracy:

>99.99%

>99.5%

>99%

Segmentation by Application:

Food

Chemicals

Minerals

Plastics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Tomra

Pellenc ST

Mogensen

Steinert

Bulk Handling Systems

MSS, LLC

Satake

Senro

Prodecologia

Picvisa

Bühler Group

Cimbria

Growking Optoelectronic

PEAKS-ECO

Zhongke Optic-electronic Color Sorter Machinery

Meyer Optoelectronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global NIR Optical Separator market?

What factors are driving NIR Optical Separator market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do NIR Optical Separator market opportunities vary by end market size?

How does NIR Optical Separator break out by Type, by Application?

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