

Global NIR Transmission Grating Market Growth 2026-2032

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Abstracts

The global NIR Transmission Grating market size is predicted to grow from US\$ 43.83 million in 2025 to US\$ 84.90 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

In 2025, the global sales volume of NIR Transmission Grating is estimated at approximately 28,000 pieces, with an average global market price of around USD 1,600 per piece. The gross margin of major manufacturers in the industry is estimated to be around 35%-55%.

NIR Transmission Grating is a precision diffractive optical component used for light splitting, dispersion control, and wavelength selection in the near-infrared wavelength range. It is typically fabricated by forming periodic micro- or nano-scale structures on substrates such as optical glass, fused silica, or optical polymers, enabling incident near-infrared light to undergo diffraction and be dispersed by wavelength during transmission. Its core function is to separate near-infrared light of different wavelengths or control the propagation direction of the beam, thereby improving the resolution, signal efficiency, and wavelength identification capability of spectroscopic instruments. It can also be used for pulse stretching, pulse compression, and dispersion compensation in ultrafast laser systems. Compared with conventional linear optical components such as lenses and optical windows, NIR Transmission Grating places greater emphasis on wavelength resolution, diffraction efficiency, low stray light, and compatibility with the near-infrared band, making it a key optical component in spectroscopy, optical communication, and ultrafast laser systems.

The upstream of NIR Transmission Grating mainly includes optical glass, fused silica, optical adhesives, photoresists, coating materials, holographic exposure materials,

micro- and nano-fabrication equipment, lithography equipment, etching equipment, and precision testing instruments. The midstream involves holographic exposure, surface etching, mechanical ruling, replication molding, coating, and optical inspection processes to produce transmission grating products with specific line density, central wavelength, groove structure, and diffraction efficiency. Downstream applications mainly include spectroscopic instruments, ultrafast laser systems, biomedical applications, optical communication and LiDAR, and industrial testing. Its value lies in enhancing the splitting, detection, and control capabilities of near-infrared optical signals, providing core optical support for material analysis, medical imaging, communication wavelength-division multiplexing, laser pulse control, and online testing.

United States market for NIR Transmission Grating is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for NIR Transmission Grating is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for NIR Transmission Grating is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key NIR Transmission Grating players cover Ibsen Photonics, Wasatch Photonics, Thorlabs, Coherent Corp, Gitterwerk GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global NIR Transmission Grating 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 Transmission Grating portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global NIR Transmission Grating market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NIR Transmission Grating 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 Transmission Grating.

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

Segmentation by Type:

Surface-etched Grating

Volume Phase Holographic (VPH) Grating

Mechanically Ruled Grating

Segmentation by Operating Wavelength:

Short-wavelength Near-infrared (780 nm?1100 nm)

Mid-wavelength Near-infrared (1100 nm?1700 nm)

Long-wavelength Near-infrared (1700 nm?2500 nm)

Segmentation by Application:

Spectroscopic Instruments

Ultrafast Laser Systems

Biomedical

Optical Communication and LiDAR

Industrial Testing

Other

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.

Ibsen Photonics

Wasatch Photonics

Thorlabs

Coherent Corp

Gitterwerk GmbH

MKS

Holographix LLC

Anhui Zhongke Grating Technology

CASTECH

Qingxuankeji

Key Questions Addressed in this Report

What is the 10-year outlook for the global NIR Transmission Grating market?

What factors are driving NIR Transmission Grating market growth, globally and by region?

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

How do NIR Transmission Grating market opportunities vary by end market size?

How does NIR Transmission Grating break out by Type, by Application?

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