

Global NIR Transmission Grating 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 Transmission Grating market size was valued at US\$ 46.10 million in 2025 and is forecast to a readjusted size of US\$ 86.49 million by 2032 with a CAGR of 9.4% during review period.

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.

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

Global NIR Transmission Grating market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global NIR Transmission Grating market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global NIR Transmission Grating market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Transmission Grating

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 Transmission Grating 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 Ibsen Photonics, Wasatch Photonics, Thorlabs, Coherent Corp, Gitterwerk GmbH, MKS, Holographix LLC, Anhui Zhongke Grating Technology, CASTECH, Qingxuankeji, etc.

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

Market Segmentation

NIR Transmission Grating 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

Surface-etched Grating

Volume Phase Holographic (VPH) Grating

Mechanically Ruled Grating

Market segment 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)

Market segment by Application

Spectroscopic Instruments

Ultrafast Laser Systems

Biomedical

Optical Communication and LiDAR

Industrial Testing

Other

Major players covered

Ibsen Photonics

Wasatch Photonics

Thorlabs

Coherent Corp

Gitterwerk GmbH

MKS

Holographix LLC

Anhui Zhongke Grating Technology

CASTECH

Qingxuankeji

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 Transmission Grating product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the NIR Transmission Grating 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 Transmission Grating 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 Transmission Grating.

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

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