

Global Holographic Grating Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Holographic Grating market size was valued at US\$ 231 million in 2024 and is forecast to a readjusted size of USD 305 million by 2031 with a CAGR of 4.1% during review period.

A holographic grating is a type of diffraction grating formed by an interference-fringe field of two laser beams whose standing-wave pattern is exposed to a polished substrate coated with photoresist. Processing of the exposed medium results in a pattern of straight lines with a sinusoidal crosssection. A diffraction grating is an optical element that diffracts energy into its constituent wavelengths. The groove density, depth and profile of a diffraction grating dictate the spectral range, efficiency, resolution and performance of the diffraction grating. There are typically two different types of diffraction grating – the ruled grating and the holographic grating. A ruled diffraction grating is produced by a ruling engine that cuts grooves into the coating on the grating substrate (typically glass coated with a thin reflective layer) using a diamond tipped tool. A holographic diffraction grating is produced using a photolithographic technique. The most common type of holographic diffraction grating are plane gratings and concave gratings.

Global Holographic Grating key players include HORIBA, Newport Corporation, Edmund Optics, Shimadzu Corporation, Zeiss, etc. Global top five manufacturers hold a share over 40%.

North America is the largest market, with a share about 35%, followed by Japan, and Europe, both have a share over 40 percent.

In terms of product, Concave Type Holographic Grating is the largest segment, with a share over 60%. And in terms of application, the largest application is Monochromator and Spectrometer, followed by Laser, Optical Communication, Astronomy, etc.

This report is a detailed and comprehensive analysis for global Holographic 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 Holographic Grating market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Holographic Grating market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Holographic Grating market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global Holographic Grating market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

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 Holographic 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 Holographic 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 HORIBA, Newport Corporation, Edmund Optics, Shimadzu Corporation, Zeiss, Dynasil Corporation, Kaiser Optical Systems, Spectrogon AB, Headwall Photonics, Thorlabs, etc.

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

Market Segmentation

Holographic Grating market is split by Type and by Application. For the period 2020-2031, 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

- Plane Type Holographic Grating

- Concave Type Holographic Grating

Market segment by Application

- Laser

- Astronomy

- Optical Telecom

- Monochromator and Spectrometer

- Others

Major players covered

HORIBA

Newport Corporation

Edmund Optics

Shimadzu Corporation

Zeiss

Dynasil Corporation

Kaiser Optical Systems

Spectrogon AB

Headwall Photonics

Thorlabs

Photop Technologies

Spectrum Scientific

Wasatch Photonics

GratingWorks

Shenyang Yibeite Optics

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

Chapter 2, to profile the top manufacturers of Holographic Grating, with price, sales quantity, revenue, and global market share of Holographic Grating from 2020 to 2025.

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

Chapter 4, the Holographic Grating breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Holographic Grating market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Holographic Grating.

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

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