

Global Holographic Grating Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G7A7478A277EN.html>

Date: January 2024

Pages: 136

Price: US\$ 3,480.00 (Single User License)

ID: G7A7478A277EN

Abstracts

According to our (Global Info Research) latest study, the global Holographic Grating market size was valued at USD 213 million in 2023 and is forecast to a readjusted size of USD 280.6 million by 2030 with a CAGR of 4.0% 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.

The Global Info Research report includes an overview of the development of the Holographic Grating industry chain, the market status of Laser (Plane Type Holographic Grating, Concave Type Holographic Grating), Astronomy (Plane Type Holographic Grating, Concave Type Holographic Grating), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Holographic Grating.

Regionally, the report analyzes the Holographic Grating markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Holographic Grating market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Holographic Grating market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Holographic Grating industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Plane Type Holographic Grating, Concave Type Holographic Grating).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Holographic Grating market.

Regional Analysis: The report involves examining the Holographic Grating market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour

to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Holographic Grating market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Holographic Grating:

Company Analysis: Report covers individual Holographic Grating manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Holographic Grating. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Laser, Astronomy).

Technology Analysis: Report covers specific technologies relevant to Holographic Grating. It assesses the current state, advancements, and potential future developments in Holographic Grating areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Holographic Grating market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Holographic Grating market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

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, revenue and global market share of Holographic Grating from 2019 to 2024.

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 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Holographic Grating market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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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