

# Global Holographic Grating Market Size, Manufacturers, Opportunities and Forecast to 2030

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## Abstracts

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.

According to APO Research, The global Holographic Grating market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Holographic Grating, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Holographic Grating.

The Holographic Grating market size, estimations, and forecasts are provided in terms of sales volume (K Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Holographic Grating market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

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

#### Holographic Grating segment by Type

Plane Type Holographic Grating

Concave Type Holographic Grating

#### Holographic Grating segment by Application

Laser

Astronomy

Optical Telecom

Monochromator and Spectrometer

Others

## Holographic Grating Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Holographic Grating market, and introduces in detail the market share, industry ranking, competitor

ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Holographic Grating and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Holographic Grating.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Detailed analysis of Holographic Grating manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Holographic Grating in regional level. It provides a

quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Holographic Grating Market Size Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Holographic Grating Sales Estimates and Forecasts (2019-2030)
- 1.3 Holographic Grating Market by Type
  - 1.3.1 Plane Type Holographic Grating
  - 1.3.2 Concave Type Holographic Grating
- 1.4 Global Holographic Grating Market Size by Type
  - 1.4.1 Global Holographic Grating Market Size Overview by Type (2019-2030)
  - 1.4.2 Global Holographic Grating Historic Market Size Review by Type (2019-2024)
  - 1.4.3 Global Holographic Grating Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
  - 1.5.1 North America Holographic Grating Sales Breakdown by Type (2019-2024)
  - 1.5.2 Europe Holographic Grating Sales Breakdown by Type (2019-2024)
  - 1.5.3 Asia-Pacific Holographic Grating Sales Breakdown by Type (2019-2024)
  - 1.5.4 Latin America Holographic Grating Sales Breakdown by Type (2019-2024)
  - 1.5.5 Middle East and Africa Holographic Grating Sales Breakdown by Type (2019-2024)

### 2 GLOBAL MARKET DYNAMICS

- 2.1 Holographic Grating Industry Trends
- 2.2 Holographic Grating Industry Drivers
- 2.3 Holographic Grating Industry Opportunities and Challenges
- 2.4 Holographic Grating Industry Restraints

### 3 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Holographic Grating Revenue (2019-2024)
- 3.2 Global Top Players by Holographic Grating Sales (2019-2024)
- 3.3 Global Top Players by Holographic Grating Price (2019-2024)
- 3.4 Global Holographic Grating Industry Company Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Holographic Grating Key Company Manufacturing Sites & Headquarters
- 3.6 Global Holographic Grating Company, Product Type & Application
- 3.7 Global Holographic Grating Company Commercialization Time



### 3.8 Market Competitive Analysis

3.8.1 Global Holographic Grating Market CR5 and HHI

3.8.2 Global Top 5 and 10 Holographic Grating Players Market Share by Revenue in 2023

3.8.3 2023 Holographic Grating Tier 1, Tier 2, and Tier

## 4 HOLOGRAPHIC GRATING REGIONAL STATUS AND OUTLOOK

4.1 Global Holographic Grating Market Size and CAGR by Region: 2019 VS 2023 VS 2030

4.2 Global Holographic Grating Historic Market Size by Region

4.2.1 Global Holographic Grating Sales in Volume by Region (2019-2024)

4.2.2 Global Holographic Grating Sales in Value by Region (2019-2024)

4.2.3 Global Holographic Grating Sales (Volume & Value), Price and Gross Margin (2019-2024)

4.3 Global Holographic Grating Forecasted Market Size by Region

4.3.1 Global Holographic Grating Sales in Volume by Region (2025-2030)

4.3.2 Global Holographic Grating Sales in Value by Region (2025-2030)

4.3.3 Global Holographic Grating Sales (Volume & Value), Price and Gross Margin (2025-2030)

## 5 HOLOGRAPHIC GRATING BY APPLICATION

5.1 Holographic Grating Market by Application

5.1.1 Laser

5.1.2 Astronomy

5.1.3 Optical Telecom

5.1.4 Monochromator and Spectrometer

5.1.5 Others

5.2 Global Holographic Grating Market Size by Application

5.2.1 Global Holographic Grating Market Size Overview by Application (2019-2030)

5.2.2 Global Holographic Grating Historic Market Size Review by Application (2019-2024)

5.2.3 Global Holographic Grating Forecasted Market Size by Application (2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America Holographic Grating Sales Breakdown by Application (2019-2024)

5.3.2 Europe Holographic Grating Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific Holographic Grating Sales Breakdown by Application (2019-2024)

5.3.4 Latin America Holographic Grating Sales Breakdown by Application (2019-2024)

5.3.5 Middle East and Africa Holographic Grating Sales Breakdown by Application (2019-2024)

## **6 COMPANY PROFILES**

### **6.1 HORIBA**

6.1.1 HORIBA Company Information

6.1.2 HORIBA Business Overview

6.1.3 HORIBA Holographic Grating Sales, Revenue and Gross Margin (2019-2024)

6.1.4 HORIBA Holographic Grating Product Portfolio

6.1.5 HORIBA Recent Developments

### **6.2 Newport Corporation**

6.2.1 Newport Corporation Company Information

6.2.2 Newport Corporation Business Overview

6.2.3 Newport Corporation Holographic Grating Sales, Revenue and Gross Margin (2019-2024)

6.2.4 Newport Corporation Holographic Grating Product Portfolio

6.2.5 Newport Corporation Recent Developments

### **6.3 Edmund Optics**

6.3.1 Edmund Optics Company Information

6.3.2 Edmund Optics Business Overview

6.3.3 Edmund Optics Holographic Grating Sales, Revenue and Gross Margin (2019-2024)

6.3.4 Edmund Optics Holographic Grating Product Portfolio

6.3.5 Edmund Optics Recent Developments

### **6.4 Shimadzu Corporation**

6.4.1 Shimadzu Corporation Company Information

6.4.2 Shimadzu Corporation Business Overview

6.4.3 Shimadzu Corporation Holographic Grating Sales, Revenue and Gross Margin (2019-2024)

6.4.4 Shimadzu Corporation Holographic Grating Product Portfolio

6.4.5 Shimadzu Corporation Recent Developments

### **6.5 Zeiss**

6.5.1 Zeiss Company Information

6.5.2 Zeiss Business Overview

6.5.3 Zeiss Holographic Grating Sales, Revenue and Gross Margin (2019-2024)

6.5.4 Zeiss Holographic Grating Product Portfolio

6.5.5 Zeiss Recent Developments

### **6.6 Dynasil Corporation**

- 6.6.1 Dynasil Corporation Company Information
- 6.6.2 Dynasil Corporation Business Overview
- 6.6.3 Dynasil Corporation Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
- 6.6.4 Dynasil Corporation Holographic Grating Product Portfolio
- 6.6.5 Dynasil Corporation Recent Developments
- 6.7 Kaiser Optical Systems
  - 6.7.1 Kaiser Optical Systems Company Information
  - 6.7.2 Kaiser Optical Systems Business Overview
  - 6.7.3 Kaiser Optical Systems Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.7.4 Kaiser Optical Systems Holographic Grating Product Portfolio
  - 6.7.5 Kaiser Optical Systems Recent Developments
- 6.8 Spectrogon AB
  - 6.8.1 Spectrogon AB Company Information
  - 6.8.2 Spectrogon AB Business Overview
  - 6.8.3 Spectrogon AB Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.8.4 Spectrogon AB Holographic Grating Product Portfolio
  - 6.8.5 Spectrogon AB Recent Developments
- 6.9 Headwall Photonics
  - 6.9.1 Headwall Photonics Company Information
  - 6.9.2 Headwall Photonics Business Overview
  - 6.9.3 Headwall Photonics Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.9.4 Headwall Photonics Holographic Grating Product Portfolio
  - 6.9.5 Headwall Photonics Recent Developments
- 6.10 Thorlabs
  - 6.10.1 Thorlabs Company Information
  - 6.10.2 Thorlabs Business Overview
  - 6.10.3 Thorlabs Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.10.4 Thorlabs Holographic Grating Product Portfolio
  - 6.10.5 Thorlabs Recent Developments
- 6.11 Photop Technologies
  - 6.11.1 Photop Technologies Company Information
  - 6.11.2 Photop Technologies Business Overview
  - 6.11.3 Photop Technologies Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.11.4 Photop Technologies Holographic Grating Product Portfolio

- 6.11.5 Photop Technologies Recent Developments
- 6.12 Spectrum Scientific
  - 6.12.1 Spectrum Scientific Company Information
  - 6.12.2 Spectrum Scientific Business Overview
  - 6.12.3 Spectrum Scientific Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.12.4 Spectrum Scientific Holographic Grating Product Portfolio
  - 6.12.5 Spectrum Scientific Recent Developments
- 6.13 Wasatch Photonics
  - 6.13.1 Wasatch Photonics Company Information
  - 6.13.2 Wasatch Photonics Business Overview
  - 6.13.3 Wasatch Photonics Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.13.4 Wasatch Photonics Holographic Grating Product Portfolio
  - 6.13.5 Wasatch Photonics Recent Developments
- 6.14 GratingWorks
  - 6.14.1 GratingWorks Company Information
  - 6.14.2 GratingWorks Business Overview
  - 6.14.3 GratingWorks Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.14.4 GratingWorks Holographic Grating Product Portfolio
  - 6.14.5 GratingWorks Recent Developments
- 6.15 Shenyang Yibeite Optics
  - 6.15.1 Shenyang Yibeite Optics Company Information
  - 6.15.2 Shenyang Yibeite Optics Business Overview
  - 6.15.3 Shenyang Yibeite Optics Holographic Grating Sales, Revenue and Gross Margin (2019-2024)
  - 6.15.4 Shenyang Yibeite Optics Holographic Grating Product Portfolio
  - 6.15.5 Shenyang Yibeite Optics Recent Developments

## **7 NORTH AMERICA BY COUNTRY**

- 7.1 North America Holographic Grating Sales by Country
  - 7.1.1 North America Holographic Grating Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
  - 7.1.2 North America Holographic Grating Sales by Country (2019-2024)
  - 7.1.3 North America Holographic Grating Sales Forecast by Country (2025-2030)
- 7.2 North America Holographic Grating Market Size by Country
  - 7.2.1 North America Holographic Grating Market Size Growth Rate (CAGR) by

Country: 2019 VS 2023 VS 2030

7.2.2 North America Holographic Grating Market Size by Country (2019-2024)

7.2.3 North America Holographic Grating Market Size Forecast by Country  
(2025-2030)

## **8 EUROPE BY COUNTRY**

8.1 Europe Holographic Grating Sales by Country

8.1.1 Europe Holographic Grating Sales Growth Rate (CAGR) by Country: 2019 VS  
2023 VS 2030

8.1.2 Europe Holographic Grating Sales by Country (2019-2024)

8.1.3 Europe Holographic Grating Sales Forecast by Country (2025-2030)

8.2 Europe Holographic Grating Market Size by Country

8.2.1 Europe Holographic Grating Market Size Growth Rate (CAGR) by Country: 2019  
VS 2023 VS 2030

8.2.2 Europe Holographic Grating Market Size by Country (2019-2024)

8.2.3 Europe Holographic Grating Market Size Forecast by Country (2025-2030)

## **9 ASIA-PACIFIC BY COUNTRY**

9.1 Asia-Pacific Holographic Grating Sales by Country

9.1.1 Asia-Pacific Holographic Grating Sales Growth Rate (CAGR) by Country: 2019  
VS 2023 VS 2030

9.1.2 Asia-Pacific Holographic Grating Sales by Country (2019-2024)

9.1.3 Asia-Pacific Holographic Grating Sales Forecast by Country (2025-2030)

9.2 Asia-Pacific Holographic Grating Market Size by Country

9.2.1 Asia-Pacific Holographic Grating Market Size Growth Rate (CAGR) by Country:  
2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Holographic Grating Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Holographic Grating Market Size Forecast by Country (2025-2030)

## **10 LATIN AMERICA BY COUNTRY**

10.1 Latin America Holographic Grating Sales by Country

10.1.1 Latin America Holographic Grating Sales Growth Rate (CAGR) by Country:  
2019 VS 2023 VS 2030

10.1.2 Latin America Holographic Grating Sales by Country (2019-2024)

10.1.3 Latin America Holographic Grating Sales Forecast by Country (2025-2030)

10.2 Latin America Holographic Grating Market Size by Country

10.2.1 Latin America Holographic Grating Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2.2 Latin America Holographic Grating Market Size by Country (2019-2024)

10.2.3 Latin America Holographic Grating Market Size Forecast by Country (2025-2030)

## **11 MIDDLE EAST AND AFRICA BY COUNTRY**

11.1 Middle East and Africa Holographic Grating Sales by Country

11.1.1 Middle East and Africa Holographic Grating Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.1.2 Middle East and Africa Holographic Grating Sales by Country (2019-2024)

11.1.3 Middle East and Africa Holographic Grating Sales Forecast by Country (2025-2030)

11.2 Middle East and Africa Holographic Grating Market Size by Country

11.2.1 Middle East and Africa Holographic Grating Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2.2 Middle East and Africa Holographic Grating Market Size by Country (2019-2024)

11.2.3 Middle East and Africa Holographic Grating Market Size Forecast by Country (2025-2030)

## **12 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

12.1 Holographic Grating Value Chain Analysis

12.1.1 Holographic Grating Key Raw Materials

12.1.2 Key Raw Materials Price

12.1.3 Raw Materials Key Suppliers

12.1.4 Manufacturing Cost Structure

12.1.5 Holographic Grating Production Mode & Process

12.2 Holographic Grating Sales Channels Analysis

12.2.1 Direct Comparison with Distribution Share

12.2.2 Holographic Grating Distributors

12.2.3 Holographic Grating Customers

## **13 CONCLUDING INSIGHTS**

## **14 APPENDIX**

- 14.1 Reasons for Doing This Study
- 14.2 Research Methodology
- 14.3 Research Process
- 14.4 Authors List of This Report
- 14.5 Data Source
  - 14.5.1 Secondary Sources
  - 14.5.2 Primary Sources
- 14.6 Disclaimer

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