

Collimating Lens Market Research Report Forecast to 2030

Market Report | 2023-06-28 | 100 pages | Market Research Future

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- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

Report description:

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Market Overview

As per the MRFR statistics, the Collimating Lens market industry is projected to register a notable CAGR of 5.8% during the review period. The expansion of the collimating lens market is attributed to the upsides of aspheric lenses over conventional round lenses in optical frameworks and the benefits of collimating lenses in various applications.

Bent optical lenses are called collimating lenses to cause the light pillars that to enter the spectrometer arrangement equally. Utilizing these lenses, clients can change lighting and gathering plots for inspecting, as well as the arrangement's scope of vision, collection effectiveness, and spatial resolution. Instances of collimating lenses used to guarantee that the light entering an instrument is equal and covers the essential estimating region incorporate spectrometers, colorimeters, and light meters. The optical frameworks utilize the lenses. The requirement for fiber components, especially fiber collimating lenses, is expected to expand because of the roaring interest in fiber optics. Collimating lenses are a critical component of numerous frameworks for different applications, including spectrometers, shaft expander frameworks, show estimating frameworks, fiber couplers, laser illumination frameworks, sensor testing frameworks, and so on. Collimating lenses can collimate light bars with high exactness and high resolution. Utilizing collimating lenses, clients have some control over the field of view, spatial resolution, and adequacy of their hardware or arrangements.

Market Segmentation

Based on the kind of light source used, the collimating lens market is segmented into xenon lamp, infrared light, LED, laser, and RGB categories. Moulded glass, moulded plastic, and more categories are available on the market, depending on the material. Four wavelength bands are used to segment the collimating lens market: less than 1000 nm, 1001-1500 nm, 1500-2000 nm, and 2001 nm. The collimating lens market has been divided into subgroups based on the end-user categories of medical, automotive, lidar, light, and display measurement, spectroscopy, interferometry, and others.

Regional Insights

Asia-Pacific represented the biggest share of income in 2019 with a share of 39%. The developing interest for consumer electronics items and the promptly accessible, reasonably estimated natural substances for electronic makers are pivotal for the market's expansion.

North American region will display the quickest CAGR during the estimated period. The figure driving the development of the

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region is rising interest in Drove lighting frameworks in a few modern applications. Driven lighting frameworks are utilized in numerous modern applications, for example, street lamps, parking structure lighting, walkway, and other outside region lighting, refrigerated case lighting, measured lighting, and assignment lighting.

Major Players

Lightpath Technologies, INGENRIC, Trioptics GmbH, Technology AG, Auer Lighting GmbH, IPG Photonics Corporation, Optikos, The Optoelectronics company, Ocean Insight, Thorlabs, Inc., AMS Axetris AG, Bentham, Focuslight Technologies Inc., Avantes BV, Edmund Optics Inc., and Quarton Inc. are a few notable manufacturers in the collimating lens market.

Table of Contents:

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY

1.1. MARKET ATTRACTIVENESS ANALYSIS

1.1.1. GLOBAL COLLIMATING LENS MARKET, BY LIGHT SOURCE

1.1.2. GLOBAL COLLIMATING LENS MARKET, BY MATERIAL

1.1.3. GLOBAL COLLIMATING LENS MARKET, BY WAVELENGTH

1.1.4. GLOBAL COLLIMATING LENS MARKET, BY END USER

1.1.5. GLOBAL COLLIMATING LENS MARKET, BY REGION

2. MARKET INTRODUCTION

2.1. DEFINITION

2.2. SCOPE OF THE STUDY

2.3. MARKET STRUCTURE

2.4. KEY BUYING CRITERIA

2.5. MACRO FACTOR INDICATOR ANALYSIS

3. RESEARCH METHODOLOGY

3.1. RESEARCH PROCESS

3.2. PRIMARY RESEARCH

3.3. SECONDARY RESEARCH

3.4. MARKET SIZE ESTIMATION

3.5. FORECAST MODEL

3.6. LIST OF ASSUMPTIONS

4. MARKET DYNAMICS

4.1. INTRODUCTION

4.2. DRIVERS

4.2.1. INCREASING ADOPTION OF OPTICS SYSTEMS

4.2.2. GROWING DEMAND OF ASPHERIC LENSES OVER TRADITIONAL SPHERICAL LENSES IN OPTICS SYSTEM

4.3. RESTRAINTS

4.3.1. HIGH COST RELATED TO MANUFACTURE

4.4. OPPORTUNITIES

4.4.1. GROWING IMPORTANCE OF FIBER OPTICS COLLIMATING LENSES

4.5. COVID-19 IMPACT ANALYSIS

4.5.1. IMPACT ON SEMICONDUCTOR MANUFACTURERS

4.5.2. IMPACT ON MATERIAL MANUFACTURERS

4.5.3. IMPACT ON DEVICE MANUFACTURERS

4.5.4. COVID-19 IMPACT ON SUPPLY CHAIN DELAYS

5. COVID-19 IMPACT ON SUPPLY CHAIN DELAYSMARKET FACTOR ANALYSIS

5.1. VALUE CHAIN ANALYSIS/SUPPLY CHAIN ANALYSIS

5.2. PORTER'S FIVE FORCES MODEL

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- 5.3. BARGAINING POWER OF SUPPLIERS
- 5.4. BARGAINING POWER OF BUYERS
- 5.5. THREAT OF NEW ENTRANTS
- 5.6. THREAT OF SUBSTITUTES
- 5.7. INTENSITY OF RIVALRY
- 6. GLOBAL COLLIMATING LENS MARKET, BY LIGHT SOURCE
 - 6.1. INTRODUCTION
 - 6.2. LED
 - 6.3. LASER
 - 6.4. XENON LAMP
 - 6.5. INFRARED LIGHT
 - 6.6. RGB
- 7. GLOBAL COLLIMATING LENS MARKET, BY MATERIAL
 - 7.1. INTRODUCTION
 - 7.2. MOLDED GLASS
 - 7.3. MOLDED PLASTIC
- 8. GLOBAL COLLIMATING LENS MARKET, BY WAVELENGTH
 - 8.1. INTRODUCTION
 - 8.2. LESS THAN-1000 NM
 - 8.3. 1001-1500 NM
 - 8.4. 1501-2000 NM
 - 8.5. 2001NM AND ABOVE
- 9. GLOBAL COLLIMATING LENS MARKET, BY END USER
 - 9.1. INTRODUCTION
 - 9.2. AUTOMOBILE
 - 9.3. MEDICAL
 - 9.4. LIDAR
 - 9.5. LIGHT AND DISPLAY MEASUREMENT
 - 9.6. SPECTROSCOPY
 - 9.7. INTERFEROMETRY
 - 9.8. OTHERS
- 10. GLOBAL COLLIMATING LENS MARKET SIZE ESTIMATION & FORECAST, BY REGION
 - 10.1. INTRODUCTION
 - 10.2. NORTH AMERICA
 - 10.2.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2019-2030
 - 10.2.2. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.2.3. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.2.4. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.2.5. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.2.6. US
 - 10.2.6.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.2.6.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.2.6.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.2.6.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.2.7. CANADA
 - 10.2.7.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.2.7.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030

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- 10.2.7.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
- 10.2.7.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.2.8. MEXICO
 - 10.2.8.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.2.8.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.2.8.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.2.8.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.3. EUROPE
 - 10.3.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2019-2030
 - 10.3.2. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.3.3. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.3.4. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.3.5. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.3.6. UK
 - 10.3.6.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.3.6.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.3.6.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.3.6.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.3.7. GERMANY
 - 10.3.7.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.3.7.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.3.7.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.3.7.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.3.8. FRANCE
 - 10.3.8.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.3.8.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.3.8.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.3.8.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.3.9. REST OF EUROPE
 - 10.3.9.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.3.9.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.3.9.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.3.9.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.4. ASIA-PACIFIC
 - 10.4.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2019-2030
 - 10.4.2. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.4.3. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.4.4. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.4.5. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.4.6. CHINA
 - 10.4.6.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.4.6.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.4.6.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.4.6.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
 - 10.4.7. JAPAN
 - 10.4.7.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.4.7.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030

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- 10.4.7.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
- 10.4.7.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.4.8. INDIA
 - 10.4.8.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.4.8.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.4.8.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.4.8.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.4.9. REST OF ASIA-PACIFIC
 - 10.4.9.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.4.9.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.4.9.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.4.9.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.5. MIDDLE EAST & AFRICA
 - 10.5.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.5.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.5.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.5.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 10.6. SOUTH AMERICA
 - 10.6.1. MARKET ESTIMATES & FORECAST, BY LIGHT SOURCE, 2019-2030
 - 10.6.2. MARKET ESTIMATES & FORECAST, BY MATERIAL, 2019-2030
 - 10.6.3. MARKET ESTIMATES & FORECAST, BY WAVELENGTH, 2019-2030
 - 10.6.4. MARKET ESTIMATES & FORECAST, BY END USER, 2019-2030
- 11. COMPETITIVE LANDSCAPE
 - 11.1. INTRODUCTION
 - 11.2. KEY DEVELOPMENTS & GROWTH STRATEGIES
 - 11.3. COMPETITOR BENCHMARKING
 - 11.4. VENDOR SHARE ANALYSIS, 2019 (% SHARE)
 - 11.5. RECENT MARKET DEVELOPMENTS
- 12. COMPANY PROFILES
 - 12.1. LIGHTPATH TECHNOLOGIES
 - 12.2. OCEAN INSIGHT, INGENRIC
 - 12.2.1. COMPANY OVERVIEW
 - 12.2.2. FINANCIAL OVERVIEW
 - 12.2.3. SOLUTION/SERVICES OFFERED
 - 12.2.4. KEY DEVELOPMENTS
 - 12.2.5. SWOT ANALYSIS
 - 12.2.6. KEY STRATEGIES
 - 12.3. TRIOPTICS GMBH
 - 12.3.1. COMPANY OVERVIEW
 - 12.3.2. FINANCIAL OVERVIEW
 - 12.3.3. SOLUTION/SERVICES OFFERED
 - 12.3.4. KEY DEVELOPMENTS
 - 12.3.5. SWOT ANALYSIS
 - 12.3.6. KEY STRATEGIES
 - 12.4. AVANTES BV
 - 12.4.1. COMPANY OVERVIEW
 - 12.4.2. FINANCIAL OVERVIEW

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- 12.4.3. SOLUTION/SERVICES OFFERED
- 12.4.4. KEY DEVELOPMENTS
- 12.4.5. SWOT ANALYSIS
- 12.4.6. KEY STRATEGIES
- 12.5. AUER LIGHTING GMBH
 - 12.5.1. COMPANY OVERVIEW
 - 12.5.2. FINANCIAL OVERVIEW
 - 12.5.3. SOLUTION/SERVICES OFFERED
 - 12.5.4. KEY DEVELOPMENTS
 - 12.5.5. SWOT ANALYSIS
 - 12.5.6. KEY STRATEGIES
- 12.6. OPTIKOS
 - 12.6.1. COMPANY OVERVIEW
 - 12.6.2. FINANCIAL OVERVIEW
 - 12.6.3. SOLUTION/SERVICES OFFERED
 - 12.6.4. KEY DEVELOPMENTS
 - 12.6.5. SWOT ANALYSIS
 - 12.6.6. KEY STRATEGIES
- 12.7. IPG PHOTONICS CORPORATION
 - 12.7.1. COMPANY OVERVIEW
 - 12.7.2. FINANCIAL OVERVIEW
 - 12.7.3. SOLUTION/SERVICES OFFERED
 - 12.7.4. KEY DEVELOPMENTS
 - 12.7.5. SWOT ANALYSIS
 - 12.7.6. KEY STRATEGIES
- 12.8. THE OPTOELECTRONICS COMPANY
 - 12.8.1. COMPANY OVERVIEW
 - 12.8.2. FINANCIAL OVERVIEW
 - 12.8.3. SOLUTION/SERVICES OFFERED
 - 12.8.4. KEY DEVELOPMENTS
 - 12.8.5. SWOT ANALYSIS
 - 12.8.6. KEY STRATEGIES
- 12.9. THORLABS, INC.
 - 12.9.1. COMPANY OVERVIEW
 - 12.9.2. FINANCIAL OVERVIEW
 - 12.9.3. SOLUTION/SERVICES OFFERED
 - 12.9.4. KEY DEVELOPMENTS
 - 12.9.5. SWOT ANALYSIS
 - 12.9.6. KEY STRATEGIES
- 12.10. AMS TECHNOLOGY AG
 - 12.10.1. COMPANY OVERVIEW
 - 12.10.2. FINANCIAL OVERVIEW
 - 12.10.3. SOLUTION/SERVICES OFFERED
 - 12.10.4. KEY DEVELOPMENTS
 - 12.10.5. SWOT ANALYSIS
 - 12.10.6. KEY STRATEGIES
- 12.11. AXETRIS AG

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- 12.11.1. COMPANY OVERVIEW
- 12.11.2. FINANCIAL OVERVIEW
- 12.11.3. SOLUTION/SERVICES OFFERED
- 12.11.4. KEY DEVELOPMENTS
- 12.11.5. SWOT ANALYSIS
- 12.11.6. KEY STRATEGIES
- 12.12. BENTHAM
- 12.12.1. COMPANY OVERVIEW
- 12.12.2. FINANCIAL OVERVIEW
- 12.12.3. SOLUTION/SERVICES OFFERED
- 12.12.4. KEY DEVELOPMENTS
- 12.12.5. SWOT ANALYSIS
- 12.12.6. KEY STRATEGIES
- 12.13. FOCUSLIGHT TECHNOLOGIES INC.
- 12.13.1. COMPANY OVERVIEW
- 12.13.2. FINANCIAL OVERVIEW
- 12.13.3. SOLUTION/SERVICES OFFERED
- 12.13.4. KEY DEVELOPMENTS
- 12.13.5. SWOT ANALYSIS
- 12.13.6. KEY STRATEGIES
- 12.14. EDMUND OPTICS INC.
- 12.14.1. COMPANY OVERVIEW
- 12.14.2. FINANCIAL OVERVIEW
- 12.14.3. SOLUTION/SERVICES OFFERED
- 12.14.4. KEY DEVELOPMENTS
- 12.14.5. SWOT ANALYSIS
- 12.14.6. KEY STRATEGIES
- 12.15. QUARTON INC
- 12.15.1. COMPANY OVERVIEW
- 12.15.2. FINANCIAL OVERVIEW
- 12.15.3. SOLUTION/SERVICES OFFERED
- 12.15.4. KEY DEVELOPMENTS
- 12.15.5. SWOT ANALYSIS
- 12.15.6. KEY STRATEGIES

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