

Collimating Lens Market by Light Source (LED and Laser), Material (Glass and Plastic), End Use (Automobile, Medical, LiDAR, Light and Display Measurement, and spectrometer), Wavelength, and Geography - Global Forecast to 2023

<https://marketpublishers.com/r/C0CE1A42FB4EN.html>

Date: November 2018

Pages: 114

Price: US\$ 5,650.00 (Single User License)

ID: C0CE1A42FB4EN

Abstracts

“Collimating lens market is expected to grow at CAGR of 5.7% from 2018 to 2023”

The collimating lens market is expected to grow from USD 289 million in 2018 to USD 380 million by 2023, at a CAGR of 5.7%. The growth of this market is mainly driven by several factors, such as advantages of collimating lenses in various applications and benefits of using aspheric lenses over traditional spherical lenses in optics systems. Growing demand for collimating lenses in various applications and increasing importance of fiber optics collimating lenses provide lucrative opportunities for the players in the collimating lens market. However, high manufacturing cost of aspheric lenses restraint the collimating lens market growth.

“LED light is expected to hold significant share of collimating lens market during forecast period”

LED light source accounted for the largest share of the collimating lens market in 2017. The use of LED lighting systems can lead to 5 times lesser energy consumption than that of collimating lens systems in which conventional fluorescent lamps are used. Energy saving, long lifespan, compact volume, high color-rendering index, and environmental benefits are the major advantages of laser- and LED-based collimating lenses over lamp-based collimating lenses.

“Automobile segment is expected to hold significant share of collimating lens market by

2023”

The automobile segment accounted for the largest share of the collimating lens market in 2017. There is an increasing demand for collimating lenses in the automobile segment owing to the increasing adoption of LED headlamps in different types of vehicles. The market for LED headlamps is expanding from high-end vehicle to mid-range vehicles. Hence, increasing penetration of LED headlamps in automobiles provides growth opportunities for the collimating lens market.

“Market in APAC is likely to grow at highest CAGR during forecast period”

The collimating lens market in APAC is expected to grow at the highest CAGR during the forecast period.. APAC is expected to provide ample opportunities to the players in the collimating lens market during the forecast period as all major OEMs have established their manufacturing units in this region. In APAC, the collimating lens market growth is driven by the rising production of automobiles/vehicles. The growing preference for the vehicles equipped with LED headlamps, in turn, boosts the sales and production levels of collimating lenses in this region.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 = 23%, Tier 2 = 35%, and Tier 3 = 42%

By Designation: C-Level Executives = 20%, Managers = 35%, and Others = 45%

By Region: North America = 15%, Europe = 30%, APAC = 48%, and RoW = 7%

Major players profiled in this report are as follows:

LightPath Technologies, Inc. (US)

Ocean Optics, Inc. (US)

INGENERIC GmbH (Germany)

TRIOPTICS GmbH (Germany)

Avantes BV (Netherlands)

Auer Lighting GmbH (Germany)

IPG Photonics Corporation (US)

Optikos Corporation (US)

The Optoelectronics Co. Ltd (UK)

Thorlabs, Inc. (US)

Research Coverage

In this report, the collimating lens market has been segmented on the basis of light source, material, wavelength, end use, and geography. Based on light source, the market has been segmented into LED, laser, and others (xenon lamp, infrared light, and RGB). The collimating lens market based on material has been segmented into glass, plastic, and others (Crystal and silica, among others). The market for wavelength has been segmented into 1,000, 1,000–1,500, 1,500–2,000, and 2,000. Based on end use, the market has been segmented into automobile, medical, LiDAR, light and display measurement, spectroscopy, interferometry, and others (Environmental sensing, gas detection systems, communication, and agriculture measurement & monitoring system among others). The study also forecasts the size of the market in 4 main regions—North America, Europe, APAC, and RoW.

Reasons to buy the Report

The report would help the market leaders/new entrants in this market in the following ways:

1. This report segments the collimating lens market comprehensively and provides the closest approximation of the overall market size and subsegments that include light source, material, wavelength, end use, and region.
2. The report would help stakeholders understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities pertaining to the collimating lens market.
3. This report would help stakeholders understand their competitors better and gain

more insights to enhance their position in the business. The Competitive Landscape section includes competitor ecosystem, as well as product launches, partnerships, and mergers and acquisitions carried out by major market players.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

1.3.2 YEARS CONSIDERED

1.4 CURRENCY

1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

2.1.1 SECONDARY DATA

2.1.1.1 Major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews with experts

2.1.2.2 Breakdown of primaries

2.1.2.3 Key data from primary sources

2.1.2.4 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach for capturing market size by bottom-up analysis (demand side)

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach for capturing market size by top-down analysis (supply side)

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE COLLIMATING LENS MARKET (2018–2023)

4.2 COLLIMATING LENS MARKET, BY END USE

4.3 COLLIMATING LENS MARKET, BY LIGHT SOURCE AND REGION

4.4 COLLIMATING LENS MARKET, GEOGRAPHIC ANALYSIS

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Advantages of collimation of light in various applications

5.2.1.2 Benefits of using aspheric lenses over traditional spherical lenses in optics systems

5.2.2 RESTRAINTS

5.2.2.1 High manufacturing cost of aspheric lenses

5.2.3 OPPORTUNITIES

5.2.3.1 Growing demand for collimating lenses in various applications

5.2.3.2 Increasing importance of fiber optics collimating lenses

5.2.4 CHALLENGES

5.2.4.1 Restriction of Hazardous Substances (RoHS) compliance

6 COLLIMATING LENS MARKET, BY LIGHT SOURCE

6.1 INTRODUCTION

6.2 LED

6.2.1 INCREASE IN DEMAND FOR LED HEADLAMP IN AUTOMOBILE TO DRIVE THE GROWTH OF LED COLLIMATING LENS MARKET

6.3 LASER

6.3.1 BENEFITS SUCH AS HIGH INTENSITY AND MONOCHROMATICITY ARE EXPECTED TO SHOOT DEMAND FOR LASER LIGHT SOURCES

6.4 OTHERS

7 COLLIMATING LENS MARKET, BY MATERIAL

7.1 INTRODUCTION

7.2 GLASS

7.2.1 GREATER DENSITY OF GLASS MATERIAL TO DRIVE DEMAND FOR GLASS COLLIMATING LENS MARKET

7.3 PLASTIC

7.3.1 LOW-QUALITY PLASTICS ARE LIMITING GROWTH OF PLASTIC COLLIMATING LENS MARKET

7.4 OTHER MATERIALS

8 COLLIMATING LENS MARKET, BY WAVELENGTH

8.1 INTRODUCTION

8.2 1000 NM

8.2.1 COLLIMATING LENS MARKET FOR LASER LIGHT SOURCE WITH 1000 NM RANGE TO GROW AT HIGH RATE

8.3 1000–1500 NM

8.3.1 LED TO HOLD LARGEST SIZE OF COLLIMATING LENS MARKET FOR 1000–1500 NM RANGE

8.4 1500–2000 NM

8.4.1 1500-2000NM WAVELENGTH IS MOST SUITABLE FOR MEDICAL AND INDUSTRIAL APPLICATION WHICH DRIVES THE COLLIMATING LENS MARKET

8.5 2000 NM

8.5.1 LASER LIGHT SOURCE WITH 2000 NM WAVELENGTHS IS EXPECTED TO HAVE GROWTH IN SPECTROMETER AND INTERFEROMETER END USE APPLICATIONS

9 COLLIMATING LENS MARKET, BY END USE

9.1 INTRODUCTION

9.2 SPECTROSCOPY

9.2.1 DEMAND OF SPECTROSCOPY IN DETERMINING REFRACTIVE INDEX OF A MATERIAL, PRESENCE OF UNDESIRE WAVELENGTHS, AND COLOUR PROPERTIES OF LIGHT SOURCE HELP TO DRIVE THE MARKET

9.3 MEDICAL

9.3.1 INCREASING USE OF COLLIMATING LENS IN VARIOUS MEDICAL EQUIPMENT

9.4 LIDAR

9.4.1 INCREASING PENETRATION OF LIDAR TECHNOLOGY IN VARIOUS APPLICATIONS TO PROVIDE GROWTH OPPORTUNITIES FOR COLLIMATING LENS MARKET

9.5 AUTOMOBILE

9.5.1 ADVANCEMENTS IN LIGHTING TECHNOLOGIES ADOPTED IN AUTOMOBILES DRIVE DEMAND FOR COLLIMATING LENSES

9.6 LIGHT AND DISPLAY MEASUREMENT

9.6.1 COLLIMATING LENS IS AN INEVITABLE COMPONENT IN LIGHT AND DISPLAY MEASUREMENT

9.7 INTERFEROMETRY

9.7.1 NEED FOR INTERFEROMETRY IN EVALUATION OF DISPLACEMENT AND IRREGULARITIES IN FLAT AND SPHERICAL SURFACES WILL BOOST MARKET GROWTH

9.8 OTHERS

10 COLLIMATING LENS MARKET, GEOGRAPHIC ANALYSIS

10.1 INTRODUCTION

10.2 NORTH AMERICA

10.2.1 US

10.2.1.1 US accounted for largest size in collimating lens market in North America

10.2.2 CANADA

10.2.2.1 Collimating lens market in Canada is expected to witness significant growth in coming years

10.2.3 MEXICO

10.2.3.1 Rapidly expanding automotive manufacturing in Mexico is expected to provide prospects to collimating lens market

10.3 EUROPE

10.3.1 GERMANY

10.3.1.1 Growing presence of optics component manufacturers in Germany is expected to drive market growth

10.3.2 UK

10.3.2.1 Increasing demand for medical equipment in UK is propelling demand for collimating lenses

10.3.3 FRANCE

10.3.3.1 High use of LiDAR systems in applications such as space exploration, meteorology, and corridor mapping boost demand for collimating lenses in France

10.3.4 ITALY

10.3.4.1 Sophisticated healthcare infrastructure in Italy raises demand for collimating lenses

10.3.5 REST OF EUROPE

10.4 ASIA PACIFIC

10.4.1 CHINA

10.4.1.1 China accounted for largest share of collimating lens market in APAC

10.4.2 JAPAN

10.4.2.1 Increasing adoption of LED headlamps in Japan due to presence of large number of car manufacturers drives market growth

10.4.3 INDIA

10.4.3.1 Largest and fastest-growing automobile markets in India to provide growth

opportunities for collimating lens providers

10.4.4 SOUTH KOREA

10.4.4.1 Applications such as light and display measurement, medical, and automobile drive demand for collimating lenses in South Korea

10.4.5 REST OF APAC

10.5 REST OF THE WORLD

10.5.1 SOUTH AND CENTRAL AMERICA

10.5.1.1 Brazil and Argentina is expected to witness the highest growth rate in collimating lens market in South America

10.5.2 MIDDLE EAST AND AFRICA

10.5.2.1 Countries such as Saudi Arabia, Israel, UAE, and Qatar are major contributor to collimating lens market in Middle East

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 MARKET PLAYER RANKING ANALYSIS (2018)

11.2.1 PRODUCT LAUNCHES/DEVELOPMENTS

11.2.2 AGREEMENTS AND CONTRACTS

11.2.3 MERGERS/ACQUISITIONS

11.2.4 EXPANSIONS

12 COMPANY PROFILES

12.1 KEY PLAYERS

(Business overview, Products offered, Recent developments, MNM view, SWOT analysis)*

12.1.1 LIGHTPATH TECHNOLOGIES, INC.

12.1.2 OCEAN OPTICS, INC.

12.1.3 INGENERIC GMBH

12.1.4 TRIOPTICS GMBH

12.1.5 AVANTES BV

12.1.6 AUER LIGHTING GMBH

12.1.7 IPG PHOTONICS CORPORATION

12.1.8 OPTIKOS CORPORATION

12.1.9 THE OPTOELECTRONICS CO. LTD.

12.1.10 THORLABS INC.

*Business overview, Products offered, Recent developments, MNM view, SWOT analysis might not be captured in case of unlisted companies.

12.2 OTHER KEY COMPANIES

12.2.1 AMS TECHNOLOGIES AG

12.2.2 AXETRIS AG

12.2.3 BROADCOM LIMITED

12.2.4 BENTHAM INSTRUMENTS LIMITED

12.2.5 CASIX, INC.

12.2.6 EDMUND OPTICS INC.

12.2.7 FISBA AG

12.2.8 HAMAMATSU PHOTONICS K.K.

12.2.9 OPTO-LINE, INC.

12.2.10 USHIO INC.

13 APPENDIX

13.1 INSIGHTS FROM INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGE STORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

13.4 AVAILABLE CUSTOMIZATIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 COLLIMATING LENS MARKET, 2015–2023

Table 2 COLLIMATING LENS MARKET, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 3 COLLIMATING LENS MARKET FOR LED, BY WAVELENGTH, 2015–2023 (USD MILLION)

Table 4 COLLIMATING LENS MARKET FOR LED, BY MATERIAL, 2015–2023 (USD MILLION)

Table 5 COLLIMATING LENS MARKET FOR LED, BY REGION, 2015–2023 (USD MILLION)

Table 6 COLLIMATING LENS MARKET FOR LASER, BY WAVELENGTH, 2015–2023 (USD MILLION)

Table 7 COLLIMATING LENS MARKET FOR LASER, BY MATERIAL, 2015–2023 (USD MILLION)

Table 8 COLLIMATING LENS MARKET FOR LASER, BY REGION, 2015–2023 (USD MILLION)

Table 9 COLLIMATING LENS MARKET FOR OTHERS, BY WAVELENGTH, 2015–2023 (USD MILLION)

Table 10 COLLIMATING LENS MARKET FOR OTHERS, BY MATERIAL, 2015–2023 (USD MILLION)

Table 11 COLLIMATING LENS MARKET FOR OTHERS, BY REGION, 2015–2023 (USD MILLION)

Table 12 COLLIMATING LENS MARKET, BY MATERIAL, 2015–2023 (USD MILLION)

Table 13 COLLIMATING LENS MARKET FOR GLASS, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 14 COLLIMATING LENS MARKET FOR PLASTIC, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 15 COLLIMATING LENS MARKET FOR OTHER MATERIALS, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 16 COLLIMATING LENS MARKET, BY WAVELENGTH, 2015–2023 (USD MILLION)

Table 17 COLLIMATING LENS MARKET FOR 1000 NM, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 18 COLLIMATING LENS MARKET FOR 1000–1500 NM, BY LIGHT SOURCE, 2015–2023 (USD MILLION)

Table 19 COLLIMATING LENS MARKET FOR 1500–2000 NM, BY LIGHT SOURCE,

2015–2023 (USD MILLION)

Table 20 COLLIMATING LENS MARKET FOR 2000 NM, BY LIGHT SOURCE,
2015–2023 (USD MILLION)

Table 21 COLLIMATING LENS MARKET, BY END USE, 2015–2023 (USD MILLION)

Table 22 COLLIMATING LENS MARKET, BY REGION, 2015–2023 (USD MILLION)

Table 23 COLLIMATING LENS MARKET IN NORTH AMERICA, BY COUNTRY,
2015–2023 (USD MILLION)

Table 24 COLLIMATING LENS MARKET IN NORTH AMERICA, BY LIGHT SOURCE,
2015–2023 (USD MILLION)

Table 25 COLLIMATING LENS MARKET IN EUROPE, BY COUNTRY, 2015–2023
(USD MILLION)

Table 26 COLLIMATING LENS MARKET IN EUROPE, BY LIGHT SOURCE,
2015–2023 (USD MILLION)

Table 27 COLLIMATING LENS MARKET IN APAC, BY COUNTRY, 2015–2023 (USD
MILLION)

Table 28 COLLIMATING LENS MARKET IN APAC, BY LIGHT SOURCE, 2015–2023
(USD MILLION)

Table 29 COLLIMATING LENS MARKET IN ROW, BY REGION, 2015–2023 (USD
MILLION)

Table 30 COLLIMATING LENS MARKET IN ROW, BY LIGHT SOURCE, 2015–2023
(USD MILLION)

Table 31 PRODUCT LAUNCHES/DEVELOPMENTS (2015–2018)

Table 32 AGREEMENTS AND CONTRACTS (2015–2017)

Table 33 MERGERS/ACQUISITIONS (2015–2016)

Table 34 EXPANSION (2018)

List Of Figures

LIST OF FIGURES

Figure 1 COLLIMATING LENS MARKET SEGMENTATION

Figure 2 COLLIMATING LENS MARKET: PROCESS FLOW OF MARKET SIZE ESTIMATION

Figure 3 COLLIMATING LENS MARKET: RESEARCH DESIGN

Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

Figure 6 DATA TRIANGULATION

Figure 7 ASSUMPTIONS FOR RESEARCH STUDY

Figure 8 LED LIGHT SOURCE TO LEAD COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 9 1000–1500 NM WAVELENGTH TO DOMINATE COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 10 COLLIMATING LENS MARKET FOR GLASS TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 11 COLLIMATING LENS MARKET FOR AUTOMOBILE TO GROW AT HIGHEST CAGR DURING 2018–2023

Figure 12 COLLIMATING LENS MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 13 LED LIGHT SOURCE SEGMENT EXPECTED TO PROVIDE SIGNIFICANT GROWTH OPPORTUNITIES DURING THE FORECAST PERIOD

Figure 14 MARKET FOR AUTOMOBILE TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 15 LED HELD LARGEST SHARE OF COLLIMATING LENS MARKET IN 2017

Figure 16 COLLIMATING LENS MARKET IN CHINA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 17 INCREASING DEMAND FOR ASPHERIC LENSES OVER TRADITIONAL SPHERICAL LENSES DRIVES MARKET GROWTH

Figure 18 LED LIGHT TO DOMINATE COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 19 1000–1500 NM WAVELENGTH TO DOMINATE LED-BASED COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 20 LASER-BASED COLLIMATING LENS MARKET FOR 1000–1500 NM WAVELENGTH TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 21 GLASS TO DOMINATE COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 22 LED LIGHT TO DOMINATE GLASS COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 23 PLASTIC COLLIMATING LENS MARKET FOR LED LIGHT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 24 1000–1500 WAVELENGTH TO DOMINATE COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 25 LED TO HOLD LARGEST SIZE OF COLLIMATING LENS MARKET FOR 1000 NM DURING FORECAST PERIOD

Figure 26 COLLIMATING LENS MARKET FOR 1000–1500 NM FOR LASER TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 27 LED TO DOMINATE COLLIMATING LENS MARKET FOR 1500–2000 NM DURING FORECAST PERIOD

Figure 28 LED TO DOMINATE COLLIMATING LENS MARKET FOR 2000 NM DURING FORECAST PERIOD

Figure 29 LIGHT AND DISPLAY MEASUREMENT TO DOMINATE COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 30 COLLIMATING LENS MARKET IN CHINA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 31 NORTH AMERICA TO ACCOUNT FOR LARGEST SIZE OF COLLIMATING LENS MARKET DURING FORECAST PERIOD

Figure 32 NORTH AMERICA: COLLIMATING LENS MARKET SNAPSHOT

Figure 33 COLLIMATING LENS MARKET IN US TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 34 EUROPE: COLLIMATING LENS MARKET SNAPSHOT

Figure 35 GERMANY TO LEAD COLLIMATING LENS MARKET IN EUROPE DURING FORECAST PERIOD

Figure 36 APAC: COLLIMATING LENS MARKET SNAPSHOT

Figure 37 COLLIMATING LENS MARKET IN CHINA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 38 SOUTH AND CENTRAL AMERICA TO DOMINATE COLLIMATING LENS MARKET IN ROW DURING FORECAST PERIOD

Figure 39 ORGANIC AND INORGANIC STRATEGIES ADOPTED BY COMPANIES OPERATING IN COLLIMATING LENS MARKET (2013–2018)

Figure 40 MARKET RANKING OF PLAYERS (2018)

Figure 41 LIGHTPATH TECHNOLOGIES: COMPANY SNAPSHOT

Figure 42 IPG PHOTONICS: COMPANY SNAPSHOT

I would like to order

Product name: Collimating Lens Market by Light Source (LED and Laser), Material (Glass and Plastic), End Use (Automobile, Medical, LiDAR, Light and Display Measurement, and spectrometer), Wavelength, and Geography - Global Forecast to 2023

Product link: <https://marketpublishers.com/r/C0CE1A42FB4EN.html>

Price: US\$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C0CE1A42FB4EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970