

Aspherical Lens Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

<https://marketpublishers.com/r/AC09A76B4F16EN.html>

Date: September 2024

Pages: 156

Price: US\$ 4,365.00 (Single User License)

ID: AC09A76B4F16EN

Abstracts

The Global Aspherical Lens Market was valued at USD 9.46 billion in 2023 and is expected to grow at a CAGR of 6% from 2024 to 2032. The increasing demand for high-quality imaging in consumer electronics is a key factor driving market growth. With the widespread use of smartphones, digital cameras, and other imaging devices, consumers seek superior image clarity and resolution. Aspherical lenses are gaining popularity because they enhance optical performance, improving light transmission and reducing aberrations, which makes them suitable for high-resolution camera systems. This rising demand has prompted manufacturers to integrate aspherical lenses into their products to meet consumer expectations.

The automotive industry also plays a significant role in the growing demand for aspherical lenses. Modern vehicles are equipped with advanced optical systems such as adaptive headlights, lane-keeping assist cameras, and collision avoidance sensors, which rely on aspherical lenses for clearer imaging and improved functionality. These lenses provide better illumination and more accurate sensor data, enhancing vehicle safety and overall performance. As the automotive industry continues to innovate with new technologies, the demand for high-quality aspherical lenses in automotive applications is expected to rise significantly.

The market is segmented by type, with single aspherical lenses accounting for over 60% of the market share in 2023. These lenses are simpler to design and manufacture, making them more affordable and suitable for a variety of applications, including consumer electronics and optical instruments. Single aspherical lenses reduce optical aberrations in a single element, enhancing image quality without the need for complex lens systems. Their simplicity and effectiveness make them a popular choice among manufacturers, particularly in high-volume markets like smartphones and digital cameras. In terms of end-use industries, the automotive sector is projected to be the fastest-growing segment, with a CAGR of over 7%.

Aspherical lenses play a crucial role in enhancing ADAS systems and autonomous vehicles by improving features like collision avoidance and lane-keeping assistance. The demand for advanced sensor systems and cameras in the automotive industry continues to fuel the growth of the aspherical lens market. In 2023, the Asia-Pacific region held the largest market share at over 37%, driven by its strong electronics and automotive industries. The region's manufacturing capabilities, lower production costs, and technological advancements position it as a key player in the global aspherical lens market.

Contents

Report Content

CHAPTER 1 SCOPE & METHODOLOGY

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast parameters
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Vendor matrix
- 3.3 Technology & innovation landscape
- 3.4 Patent analysis
- 3.5 Key news and initiatives
- 3.6 Regulatory landscape
- 3.7 Impact forces
 - 3.7.1 Growth drivers
 - 3.7.1.1 Technological advancements
 - 3.7.1.2 Rising demand in consumer electronics
 - 3.7.1.3 Growth in automotive sector
 - 3.7.1.4 Expanding medical applications
 - 3.7.1.5 Military and aerospace requirements
 - 3.7.2 Industry pitfalls & challenges
 - 3.7.2.1 High manufacturing costs
 - 3.7.2.2 Competition from alternative technologies
- 3.8 Growth potential analysis
- 3.9 Porter's analysis

- 3.9.1 Supplier power
- 3.9.2 Buyer power
- 3.9.3 Threat of new entrants
- 3.9.4 Threat of substitutes
- 3.9.5 Industry rivalry
- 3.10 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

- 4.1 Company market share analysis
- 4.2 Competitive positioning matrix
- 4.3 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY TYPE, 2021 - 2032 (USD MILLION)

- 5.1 Key trends
- 5.2 Single aspherical lens
- 5.3 Double aspherical lens

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021 – 2032 (USD MILLION)

- 6.1 Key trends
- 6.2 Molding
- 6.3 Grinding and polishing
- 6.4 Injection molding
- 6.5 Hot pressing
- 6.6 Others

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 – 2032 (USD MILLION)

- 7.1 Key trends
- 7.2 Advanced driver assistance systems (ADAS)
- 7.3 Cameras
- 7.4 Endoscopes
- 7.5 Head-Up displays (HUDs)
- 7.6 Mobile phones

- 7.7 Ophthalmic lenses
- 7.8 Optical instruments
- 7.9 Others

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021 – 2032 (USD MILLION)

- 8.1 Key trends
- 8.2 Consumer electronics
- 8.3 Healthcare
- 8.4 Automotive
- 8.5 Industrial
- 8.6 Aerospace & defense
- 8.7 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2032 (USD MILLION)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Italy
 - 9.3.5 Spain
 - 9.3.6 Rest of Europe
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 ANZ
 - 9.4.6 Rest of Asia Pacific
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico

9.5.3 Rest of Latin America

9.6 MEA

9.6.1 UAE

9.6.2 Saudi Arabia

9.6.3 South Africa

9.6.4 Rest of MEA

CHAPTER 10 COMPANY PROFILES

10.1 AGC Inc.

10.2 ALPS ALPINE CO., LTD.

10.3 Asahi Lite Optical Co., Ltd.

10.4 Asia Optical Co., Inc.

10.5 asphericon GmbH

10.6 Avantier Inc.

10.7 Calin Technology Co. Ltd.

10.8 Canon Inc.

10.9 Carl Zeiss AG

10.10 Edmund Optics India Private Limited

10.11 FUJIFILM Corporation

10.12 Hoya Corporation

10.13 Hyperion Optics

10.14 Jenoptik AG

10.15 Knight Optical

10.16 Konica Minolta, Inc.

10.17 KYOCERA Corporation

10.18 LK SAMYANG CO., LTD

10.19 Nikon Corporation

10.20 Panasonic Holdings Corporation

10.21 SCHOTT

10.22 Shanghai Optics

10.23 SUMITA OPTICAL GLASS, Inc.

10.24 Thorlabs Inc.

10.25 Tokai Optical Co. Ltd.

I would like to order

Product name: Aspherical Lens Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

Product link: <https://marketpublishers.com/r/AC09A76B4F16EN.html>

Price: US\$ 4,365.00 (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/AC09A76B4F16EN.html>