

Global Fixed Aperture Telecentric Lenses Market Growth 2026-2032

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Abstracts

The global Fixed Aperture Telecentric Lenses market size is predicted to grow from US\$ 232 million in 2025 to US\$ 446 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

Fixed-aperture telecentric lenses are specialized optical components designed to maintain an optical axis parallel to the surface of the workpiece under inspection, ensuring a parallax-free field of view and extremely low geometric distortion. Featuring a fixed-aperture structure, these lenses provide stable depth of field and consistent image quality under telecentric imaging conditions. They are widely utilized in machine vision applications for dimensional measurement, flatness inspection, gap measurement, positioning and guidance, and high-precision imaging systems. In 2025, global sales volume for fixed-aperture telecentric lenses is projected to reach approximately 472,000 units, with an average unit price of approximately \$1,380 and a capacity utilization rate of approximately 71%. Upstream enterprises primarily encompass sectors such as high-refractive-index optical glass, low-dispersion materials, precision optical processing, optical coating equipment, lens barrel and mechanical structural component manufacturing, CNC machining centers, high-precision testing instruments, and automated assembly equipment. Downstream enterprises mainly consist of machine vision system manufacturers, industrial automation inspection equipment vendors, precision measurement instrument companies, semiconductor inspection equipment firms, automotive component inspection lines, PCB inspection systems, robotic vision module providers, and manufacturers of high-end security inspection equipment; the industry's average gross margin stands at approximately 36%. Regarding the product cost structure, lens materials and grinding/polishing account for approximately 38%; optical coatings for 19%; mechanical structural components for 11%; lens barrels and optical support parts for 7%; assembly and debugging for 13%; quality inspection and

system calibration for 6%; packaging and logistics for 4%; and R&D, quality assurance, and after-sales support for approximately 2%. Downstream demand applications include planar dimensional measurement, high-precision positioning and guidance, geometric tolerance inspection, surface defect analysis, vision-guided automated assembly, 3D scanning assistance, precision component metrology, wafer and chip packaging inspection, PCB through-hole inspection, and robotic grasping calibration. Downstream clients include Cognex, Keyence, Hexagon, Zeiss, Nikon Metrology, Texas Instruments, ON Semiconductor, Bosch inspection lines, General Motors assembly lines, Apple supply chain inspection projects, Huawei terminal automation lines, BYD automotive inspection lines, Inspur server inspection operations, precision instrument contract manufacturers, and various machine vision system integrators. In terms of business opportunities, policy-driven growth stems from the intelligent upgrading of the manufacturing sector, the advancement of the Industrial Internet, the 'Quality-Strong Nation' strategy, the domestic substitution of equipment, and green manufacturing mandates. Technological innovation is driven by R&D in low-dispersion, high-refractive-index materials; enhancements to the environmental resilience of optical coatings; ultra-high-precision grinding and assembly techniques; the optimized design of automatic apertures; thermal stability design; and seamless integration with image processing software. Meanwhile, evolving consumer demands are reflected in customers' increased focus on lens stability, consistency, imaging clarity, low distortion, vibration resistance, ease of integration, and compatibility with vision system processing.

The market value of fixed-aperture telecentric lenses in the fields of precision inspection and industrial vision is steadily rising. This trend is driven by the manufacturing sector's persistent demand for high-precision, high-reliability imaging technologies, as well as the growing need within automated production lines for highly consistent inspection results. In applications such as automotive manufacturing, electronic component production, automated PCB inspection, robotic vision guidance, and precision instrument verification, standard lenses often struggle to meet the stringent requirements for dimensional measurement accuracy, flatness deviation control, and geometric distortion management. Telecentric lenses, however, leveraging their unique imaging geometry, can significantly mitigate parallax errors and deliver highly consistent images, thereby enhancing the stability and repeatability of measurement results. Beyond 2025, fixed-aperture telecentric lenses are expected to sustain their growth trajectory within the high-precision inspection market, particularly as they become more tightly integrated with automated inspection equipment, image processing algorithm systems, 3D vision measurement instruments, and high-end robotic solutions. Future technological upgrades will focus primarily on material innovation, optical structure

optimization, enhancing the environmental resilience of optical coatings, designing for overall thermal stability, and fostering synergy with digital image correction algorithms—all aimed at improving product applicability and reliability within complex industrial environments. While international optical brands continue to hold advantages in terms of advanced manufacturing technologies, mature validation frameworks, and global service networks, domestic enterprises are steadily bolstering their competitiveness through rapid customization capabilities, responsive local support, effective cost control, and seamless compatibility with domestically developed vision systems. Driven by the implementation of strategies such as 'Made in China 2025' and the broader advancement of intelligent manufacturing, domestic R&D and production capabilities for telecentric lenses are steadily improving, leading to a continuous increase in the market penetration of domestic brands within mid-to-high-end inspection applications. Industry risks include factors such as price volatility in optical materials, lengthy product certification cycles, high market demand for customization, and the continued preference—in certain sectors—for high-end imported brands. Overall, as a critical optical component in machine vision inspection, precision metrology, and automated assembly, the market growth of fixed-aperture telecentric lenses stands to benefit significantly from the expansion of intelligent manufacturing, the upgrading of industrial inspection processes, and the intense demand within high-precision manufacturing for consistent and traceable quality data.

LP Information, Inc. (LPI) ' newest research report, the 'Fixed Aperture Telecentric Lenses Industry Forecast' looks at past sales and reviews total world Fixed Aperture Telecentric Lenses sales in 2025, providing a comprehensive analysis by region and market sector of projected Fixed Aperture Telecentric Lenses sales for 2026 through 2032. With Fixed Aperture Telecentric Lenses sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Fixed Aperture Telecentric Lenses industry.

This Insight Report provides a comprehensive analysis of the global Fixed Aperture Telecentric Lenses landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Fixed Aperture Telecentric Lenses portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Fixed Aperture Telecentric Lenses market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Fixed Aperture Telecentric Lenses and breaks down the forecast by Magnification, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fixed Aperture Telecentric Lenses.

This report presents a comprehensive overview, market shares, and growth opportunities of Fixed Aperture Telecentric Lenses market by product type, application, key manufacturers and key regions and countries.

Segmentation by Magnification:

1/4-1/2

1-2X

4-6X

Other

Segmentation by Minimum Working Distance:

?100mm

100-300mm

?300mm

Segmentation by Coaxial Light Source:

Coaxial Light Source Type

Non-Coaxial Light Source Type

Segmentation by Application:

Semiconductors & Microelectronics

Precision Machinery Manufacturing

Consumer Electronics & Displays

Medical & Pharmaceutical

Machine Vision

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Moritex Corporation (JP)

Sill Optics GmbH & Co. KG (DE)

KOWA Company (JP)

Edmund Optics (US)

Computar (CBC Group) (JP)

Jenoptik (DE)

VS Technology (JP)

Keyence Corporation (JP)

Kenko Tokina Co., Ltd. (JP)

Schneider-Kreuznach (DE)

Myutron (JP)

Zeiss (DE)

Vision Control (DE)

OPT Machine Vision (CN)

Basler (DE)

Precisioneers Group (DE)

Shenzhen Canrill Technologies (CN)

Zhongshan Guangda Optics Instrument (CN)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fixed Aperture Telecentric Lenses market?

What factors are driving Fixed Aperture Telecentric Lenses market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Fixed Aperture Telecentric Lenses market opportunities vary by end market size?

How does Fixed Aperture Telecentric Lenses break out by Magnification, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Fixed Aperture Telecentric Lenses Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Fixed Aperture Telecentric Lenses by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Fixed Aperture Telecentric Lenses by Country/Region, 2021, 2025 & 2032

2.2 Fixed Aperture Telecentric Lenses Segment by Magnification

- 2.2.1 1/4-1/2
- 2.2.2 1-2X
- 2.2.3 4-6X
- 2.2.4 Other
- 2.2.5 Fixed Aperture Telecentric Lenses Sales by Magnification
 - 2.2.5.1 Global Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)
 - 2.2.5.2 Global Fixed Aperture Telecentric Lenses Revenue and Market Share by Magnification (2021-2026)
 - 2.2.5.3 Global Fixed Aperture Telecentric Lenses Sale Price by Magnification (2021-2026)

2.3 Fixed Aperture Telecentric Lenses Segment by Minimum Working Distance

- 2.3.1 ?100mm
- 2.3.2 100-300mm
- 2.3.3 ?300mm
- 2.3.4 Fixed Aperture Telecentric Lenses Sales by Minimum Working Distance
 - 2.3.4.1 Global Fixed Aperture Telecentric Lenses Sales Market Share by Minimum

Working Distance (2021-2026)

2.3.4.2 Global Fixed Aperture Telecentric Lenses Revenue and Market Share by Minimum Working Distance (2021-2026)

2.3.4.3 Global Fixed Aperture Telecentric Lenses Sale Price by Minimum Working Distance (2021-2026)

2.4 Fixed Aperture Telecentric Lenses Segment by Coaxial Light Source

2.4.1 Coaxial Light Source Type

2.4.2 Non-Coaxial Light Source Type

2.4.3 Fixed Aperture Telecentric Lenses Sales by Coaxial Light Source

2.4.3.1 Global Fixed Aperture Telecentric Lenses Sales Market Share by Coaxial Light Source (2021-2026)

2.4.3.2 Global Fixed Aperture Telecentric Lenses Revenue and Market Share by Coaxial Light Source (2021-2026)

2.4.3.3 Global Fixed Aperture Telecentric Lenses Sale Price by Coaxial Light Source (2021-2026)

2.5 Fixed Aperture Telecentric Lenses Segment by Application

2.5.1 Semiconductors & Microelectronics

2.5.2 Precision Machinery Manufacturing

2.5.3 Consumer Electronics & Displays

2.5.4 Medical & Pharmaceutical

2.5.5 Machine Vision

2.5.6 Others

2.5.7 Fixed Aperture Telecentric Lenses Sales by Application

2.5.7.1 Global Fixed Aperture Telecentric Lenses Sale Market Share by Application (2021-2026)

2.5.7.2 Global Fixed Aperture Telecentric Lenses Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Fixed Aperture Telecentric Lenses Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Fixed Aperture Telecentric Lenses Breakdown Data by Company

3.1.1 Global Fixed Aperture Telecentric Lenses Annual Sales by Company (2021-2026)

3.1.2 Global Fixed Aperture Telecentric Lenses Sales Market Share by Company (2021-2026)

3.2 Global Fixed Aperture Telecentric Lenses Annual Revenue by Company (2021-2026)

- 3.2.1 Global Fixed Aperture Telecentric Lenses Revenue by Company (2021-2026)
- 3.2.2 Global Fixed Aperture Telecentric Lenses Revenue Market Share by Company (2021-2026)
- 3.3 Global Fixed Aperture Telecentric Lenses Sale Price by Company
- 3.4 Key Manufacturers Fixed Aperture Telecentric Lenses Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Fixed Aperture Telecentric Lenses Product Location Distribution
 - 3.4.2 Players Fixed Aperture Telecentric Lenses Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FIXED APERTURE TELECENTRIC LENSES BY GEOGRAPHIC REGION

- 4.1 World Historic Fixed Aperture Telecentric Lenses Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Fixed Aperture Telecentric Lenses Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Fixed Aperture Telecentric Lenses Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Fixed Aperture Telecentric Lenses Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Fixed Aperture Telecentric Lenses Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Fixed Aperture Telecentric Lenses Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Fixed Aperture Telecentric Lenses Sales Growth
- 4.4 APAC Fixed Aperture Telecentric Lenses Sales Growth
- 4.5 Europe Fixed Aperture Telecentric Lenses Sales Growth
- 4.6 Middle East & Africa Fixed Aperture Telecentric Lenses Sales Growth

5 AMERICAS

- 5.1 Americas Fixed Aperture Telecentric Lenses Sales by Country
 - 5.1.1 Americas Fixed Aperture Telecentric Lenses Sales by Country (2021-2026)

- 5.1.2 Americas Fixed Aperture Telecentric Lenses Revenue by Country (2021-2026)
- 5.2 Americas Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026)
- 5.3 Americas Fixed Aperture Telecentric Lenses Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Fixed Aperture Telecentric Lenses Sales by Region
 - 6.1.1 APAC Fixed Aperture Telecentric Lenses Sales by Region (2021-2026)
 - 6.1.2 APAC Fixed Aperture Telecentric Lenses Revenue by Region (2021-2026)
- 6.2 APAC Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026)
- 6.3 APAC Fixed Aperture Telecentric Lenses Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Fixed Aperture Telecentric Lenses by Country
 - 7.1.1 Europe Fixed Aperture Telecentric Lenses Sales by Country (2021-2026)
 - 7.1.2 Europe Fixed Aperture Telecentric Lenses Revenue by Country (2021-2026)
- 7.2 Europe Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026)
- 7.3 Europe Fixed Aperture Telecentric Lenses Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Fixed Aperture Telecentric Lenses by Country

8.1.1 Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Fixed Aperture Telecentric Lenses Revenue by Country
(2021-2026)

8.2 Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Magnification
(2021-2026)

8.3 Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Fixed Aperture Telecentric Lenses

10.3 Manufacturing Process Analysis of Fixed Aperture Telecentric Lenses

10.4 Industry Chain Structure of Fixed Aperture Telecentric Lenses

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Fixed Aperture Telecentric Lenses Distributors

11.3 Fixed Aperture Telecentric Lenses Customer

12 WORLD FORECAST REVIEW FOR FIXED APERTURE TELECENTRIC LENSES BY GEOGRAPHIC REGION

12.1 Global Fixed Aperture Telecentric Lenses Market Size Forecast by Region

- 12.1.1 Global Fixed Aperture Telecentric Lenses Forecast by Region (2027-2032)
- 12.1.2 Global Fixed Aperture Telecentric Lenses Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Fixed Aperture Telecentric Lenses Forecast by Magnification (2027-2032)
- 12.7 Global Fixed Aperture Telecentric Lenses Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Moritex Corporation (JP)

- 13.1.1 Moritex Corporation (JP) Company Information
- 13.1.2 Moritex Corporation (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
- 13.1.3 Moritex Corporation (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Moritex Corporation (JP) Main Business Overview
- 13.1.5 Moritex Corporation (JP) Latest Developments

13.2 Sill Optics GmbH & Co. KG (DE)

- 13.2.1 Sill Optics GmbH & Co. KG (DE) Company Information
- 13.2.2 Sill Optics GmbH & Co. KG (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
- 13.2.3 Sill Optics GmbH & Co. KG (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Sill Optics GmbH & Co. KG (DE) Main Business Overview
- 13.2.5 Sill Optics GmbH & Co. KG (DE) Latest Developments

13.3 KOWA Company (JP)

- 13.3.1 KOWA Company (JP) Company Information
- 13.3.2 KOWA Company (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
- 13.3.3 KOWA Company (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 KOWA Company (JP) Main Business Overview
- 13.3.5 KOWA Company (JP) Latest Developments

13.4 Edmund Optics (US)

- 13.4.1 Edmund Optics (US) Company Information
- 13.4.2 Edmund Optics (US) Fixed Aperture Telecentric Lenses Product Portfolios and

Specifications

13.4.3 Edmund Optics (US) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Edmund Optics (US) Main Business Overview

13.4.5 Edmund Optics (US) Latest Developments

13.5 Computar (CBC Group) (JP)

13.5.1 Computar (CBC Group) (JP) Company Information

13.5.2 Computar (CBC Group) (JP) Fixed Aperture Telecentric Lenses Product

Portfolios and Specifications

13.5.3 Computar (CBC Group) (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Computar (CBC Group) (JP) Main Business Overview

13.5.5 Computar (CBC Group) (JP) Latest Developments

13.6 Jenoptik (DE)

13.6.1 Jenoptik (DE) Company Information

13.6.2 Jenoptik (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.6.3 Jenoptik (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Jenoptik (DE) Main Business Overview

13.6.5 Jenoptik (DE) Latest Developments

13.7 VS Technology (JP)

13.7.1 VS Technology (JP) Company Information

13.7.2 VS Technology (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.7.3 VS Technology (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 VS Technology (JP) Main Business Overview

13.7.5 VS Technology (JP) Latest Developments

13.8 Keyence Corporation (JP)

13.8.1 Keyence Corporation (JP) Company Information

13.8.2 Keyence Corporation (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.8.3 Keyence Corporation (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Keyence Corporation (JP) Main Business Overview

13.8.5 Keyence Corporation (JP) Latest Developments

13.9 Kenko Tokina Co., Ltd. (JP)

13.9.1 Kenko Tokina Co., Ltd. (JP) Company Information

13.9.2 Kenko Tokina Co., Ltd. (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.9.3 Kenko Tokina Co., Ltd. (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Kenko Tokina Co., Ltd. (JP) Main Business Overview

13.9.5 Kenko Tokina Co., Ltd. (JP) Latest Developments

13.10 Schneider-Kreuznach (DE)

13.10.1 Schneider-Kreuznach (DE) Company Information

13.10.2 Schneider-Kreuznach (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.10.3 Schneider-Kreuznach (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Schneider-Kreuznach (DE) Main Business Overview

13.10.5 Schneider-Kreuznach (DE) Latest Developments

13.11 Myutron (JP)

13.11.1 Myutron (JP) Company Information

13.11.2 Myutron (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.11.3 Myutron (JP) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Myutron (JP) Main Business Overview

13.11.5 Myutron (JP) Latest Developments

13.12 Zeiss (DE)

13.12.1 Zeiss (DE) Company Information

13.12.2 Zeiss (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.12.3 Zeiss (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Zeiss (DE) Main Business Overview

13.12.5 Zeiss (DE) Latest Developments

13.13 Vision Control (DE)

13.13.1 Vision Control (DE) Company Information

13.13.2 Vision Control (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

13.13.3 Vision Control (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Vision Control (DE) Main Business Overview

13.13.5 Vision Control (DE) Latest Developments

13.14 OPT Machine Vision (CN)

- 13.14.1 OPT Machine Vision (CN) Company Information
- 13.14.2 OPT Machine Vision (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
- 13.14.3 OPT Machine Vision (CN) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.14.4 OPT Machine Vision (CN) Main Business Overview
- 13.14.5 OPT Machine Vision (CN) Latest Developments
- 13.15 Basler (DE)
 - 13.15.1 Basler (DE) Company Information
 - 13.15.2 Basler (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
 - 13.15.3 Basler (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Basler (DE) Main Business Overview
 - 13.15.5 Basler (DE) Latest Developments
- 13.16 Precisioneers Group (DE)
 - 13.16.1 Precisioneers Group (DE) Company Information
 - 13.16.2 Precisioneers Group (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
 - 13.16.3 Precisioneers Group (DE) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Precisioneers Group (DE) Main Business Overview
 - 13.16.5 Precisioneers Group (DE) Latest Developments
- 13.17 Shenzhen Canrill Technologies (CN)
 - 13.17.1 Shenzhen Canrill Technologies (CN) Company Information
 - 13.17.2 Shenzhen Canrill Technologies (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
 - 13.17.3 Shenzhen Canrill Technologies (CN) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Shenzhen Canrill Technologies (CN) Main Business Overview
 - 13.17.5 Shenzhen Canrill Technologies (CN) Latest Developments
- 13.18 Zhongshan Guangda Optics Instrument (CN)
 - 13.18.1 Zhongshan Guangda Optics Instrument (CN) Company Information
 - 13.18.2 Zhongshan Guangda Optics Instrument (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications
 - 13.18.3 Zhongshan Guangda Optics Instrument (CN) Fixed Aperture Telecentric Lenses Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Zhongshan Guangda Optics Instrument (CN) Main Business Overview
 - 13.18.5 Zhongshan Guangda Optics Instrument (CN) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Fixed Aperture Telecentric Lenses Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Fixed Aperture Telecentric Lenses Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 1/4-1/2

Table 4. Major Players of 1-2X

Table 5. Major Players of 4-6X

Table 6. Major Players of Other

Table 7. Global Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026) & (K Units)

Table 8. Global Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)

Table 9. Global Fixed Aperture Telecentric Lenses Revenue by Magnification (2021-2026) & (\$ million)

Table 10. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Magnification (2021-2026)

Table 11. Global Fixed Aperture Telecentric Lenses Sale Price by Magnification (2021-2026) & (US\$/Unit)

Table 12. Major Players of $\geq 100\text{mm}$

Table 13. Major Players of 100-300mm

Table 14. Major Players of $\geq 300\text{mm}$

Table 15. Global Fixed Aperture Telecentric Lenses Sales by Minimum Working Distance (2021-2026) & (K Units)

Table 16. Global Fixed Aperture Telecentric Lenses Sales Market Share by Minimum Working Distance (2021-2026)

Table 17. Global Fixed Aperture Telecentric Lenses Revenue by Minimum Working Distance (2021-2026) & (\$ million)

Table 18. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Minimum Working Distance (2021-2026)

Table 19. Global Fixed Aperture Telecentric Lenses Sale Price by Minimum Working Distance (2021-2026) & (US\$/Unit)

Table 20. Major Players of Coaxial Light Source Type

Table 21. Major Players of Non-Coaxial Light Source Type

Table 22. Global Fixed Aperture Telecentric Lenses Sales by Coaxial Light Source (2021-2026) & (K Units)

Table 23. Global Fixed Aperture Telecentric Lenses Sales Market Share by Coaxial Light Source (2021-2026)

Table 24. Global Fixed Aperture Telecentric Lenses Revenue by Coaxial Light Source (2021-2026) & (\$ million)

Table 25. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Coaxial Light Source (2021-2026)

Table 26. Global Fixed Aperture Telecentric Lenses Sale Price by Coaxial Light Source (2021-2026) & (US\$/Unit)

Table 27. Global Fixed Aperture Telecentric Lenses Sale by Application (2021-2026) & (K Units)

Table 28. Global Fixed Aperture Telecentric Lenses Sale Market Share by Application (2021-2026)

Table 29. Global Fixed Aperture Telecentric Lenses Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Application (2021-2026)

Table 31. Global Fixed Aperture Telecentric Lenses Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Fixed Aperture Telecentric Lenses Sales by Company (2021-2026) & (K Units)

Table 33. Global Fixed Aperture Telecentric Lenses Sales Market Share by Company (2021-2026)

Table 34. Global Fixed Aperture Telecentric Lenses Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Company (2021-2026)

Table 36. Global Fixed Aperture Telecentric Lenses Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Fixed Aperture Telecentric Lenses Producing Area Distribution and Sales Area

Table 38. Players Fixed Aperture Telecentric Lenses Products Offered

Table 39. Fixed Aperture Telecentric Lenses Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Fixed Aperture Telecentric Lenses Sales by Geographic Region (2021-2026) & (K Units)

Table 43. Global Fixed Aperture Telecentric Lenses Sales Market Share Geographic Region (2021-2026)

Table 44. Global Fixed Aperture Telecentric Lenses Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Fixed Aperture Telecentric Lenses Sales by Country/Region (2021-2026) & (K Units)

Table 47. Global Fixed Aperture Telecentric Lenses Sales Market Share by Country/Region (2021-2026)

Table 48. Global Fixed Aperture Telecentric Lenses Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Fixed Aperture Telecentric Lenses Sales by Country (2021-2026) & (K Units)

Table 51. Americas Fixed Aperture Telecentric Lenses Sales Market Share by Country (2021-2026)

Table 52. Americas Fixed Aperture Telecentric Lenses Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026) & (K Units)

Table 54. Americas Fixed Aperture Telecentric Lenses Sales by Application (2021-2026) & (K Units)

Table 55. APAC Fixed Aperture Telecentric Lenses Sales by Region (2021-2026) & (K Units)

Table 56. APAC Fixed Aperture Telecentric Lenses Sales Market Share by Region (2021-2026)

Table 57. APAC Fixed Aperture Telecentric Lenses Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026) & (K Units)

Table 59. APAC Fixed Aperture Telecentric Lenses Sales by Application (2021-2026) & (K Units)

Table 60. Europe Fixed Aperture Telecentric Lenses Sales by Country (2021-2026) & (K Units)

Table 61. Europe Fixed Aperture Telecentric Lenses Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026) & (K Units)

Table 63. Europe Fixed Aperture Telecentric Lenses Sales by Application (2021-2026)

& (K Units)

Table 64. Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Country (2021-2026) & (K Units)

Table 65. Middle East & Africa Fixed Aperture Telecentric Lenses Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Magnification (2021-2026) & (K Units)

Table 67. Middle East & Africa Fixed Aperture Telecentric Lenses Sales by Application (2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of Fixed Aperture Telecentric Lenses

Table 69. Key Market Challenges & Risks of Fixed Aperture Telecentric Lenses

Table 70. Key Industry Trends of Fixed Aperture Telecentric Lenses

Table 71. Fixed Aperture Telecentric Lenses Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Fixed Aperture Telecentric Lenses Distributors List

Table 74. Fixed Aperture Telecentric Lenses Customer List

Table 75. Global Fixed Aperture Telecentric Lenses Sales Forecast by Region (2027-2032) & (K Units)

Table 76. Global Fixed Aperture Telecentric Lenses Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Fixed Aperture Telecentric Lenses Sales Forecast by Country (2027-2032) & (K Units)

Table 78. Americas Fixed Aperture Telecentric Lenses Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Fixed Aperture Telecentric Lenses Sales Forecast by Region (2027-2032) & (K Units)

Table 80. APAC Fixed Aperture Telecentric Lenses Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Fixed Aperture Telecentric Lenses Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Europe Fixed Aperture Telecentric Lenses Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Fixed Aperture Telecentric Lenses Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Middle East & Africa Fixed Aperture Telecentric Lenses Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Fixed Aperture Telecentric Lenses Sales Forecast by Magnification (2027-2032) & (K Units)

Table 86. Global Fixed Aperture Telecentric Lenses Revenue Forecast by Magnification (2027-2032) & (\$ millions)

Table 87. Global Fixed Aperture Telecentric Lenses Sales Forecast by Application (2027-2032) & (K Units)

Table 88. Global Fixed Aperture Telecentric Lenses Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Moritex Corporation (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 90. Moritex Corporation (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 91. Moritex Corporation (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Moritex Corporation (JP) Main Business

Table 93. Moritex Corporation (JP) Latest Developments

Table 94. Sill Optics GmbH & Co. KG (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 95. Sill Optics GmbH & Co. KG (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 96. Sill Optics GmbH & Co. KG (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Sill Optics GmbH & Co. KG (DE) Main Business

Table 98. Sill Optics GmbH & Co. KG (DE) Latest Developments

Table 99. KOWA Company (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 100. KOWA Company (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 101. KOWA Company (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. KOWA Company (JP) Main Business

Table 103. KOWA Company (JP) Latest Developments

Table 104. Edmund Optics (US) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 105. Edmund Optics (US) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 106. Edmund Optics (US) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Edmund Optics (US) Main Business

Table 108. Edmund Optics (US) Latest Developments

Table 109. Computar (CBC Group) (JP) Basic Information, Fixed Aperture Telecentric

Lenses Manufacturing Base, Sales Area and Its Competitors

Table 110. Computar (CBC Group) (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 111. Computar (CBC Group) (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Computar (CBC Group) (JP) Main Business

Table 113. Computar (CBC Group) (JP) Latest Developments

Table 114. Jenoptik (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 115. Jenoptik (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 116. Jenoptik (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Jenoptik (DE) Main Business

Table 118. Jenoptik (DE) Latest Developments

Table 119. VS Technology (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 120. VS Technology (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 121. VS Technology (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. VS Technology (JP) Main Business

Table 123. VS Technology (JP) Latest Developments

Table 124. Keyence Corporation (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 125. Keyence Corporation (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 126. Keyence Corporation (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Keyence Corporation (JP) Main Business

Table 128. Keyence Corporation (JP) Latest Developments

Table 129. Kenko Tokina Co., Ltd. (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 130. Kenko Tokina Co., Ltd. (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 131. Kenko Tokina Co., Ltd. (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Kenko Tokina Co., Ltd. (JP) Main Business

Table 133. Kenko Tokina Co., Ltd. (JP) Latest Developments

Table 134. Schneider-Kreuznach (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 135. Schneider-Kreuznach (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 136. Schneider-Kreuznach (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Schneider-Kreuznach (DE) Main Business

Table 138. Schneider-Kreuznach (DE) Latest Developments

Table 139. Myutron (JP) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 140. Myutron (JP) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 141. Myutron (JP) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Myutron (JP) Main Business

Table 143. Myutron (JP) Latest Developments

Table 144. Zeiss (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 145. Zeiss (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 146. Zeiss (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Zeiss (DE) Main Business

Table 148. Zeiss (DE) Latest Developments

Table 149. Vision Control (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 150. Vision Control (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 151. Vision Control (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Vision Control (DE) Main Business

Table 153. Vision Control (DE) Latest Developments

Table 154. OPT Machine Vision (CN) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 155. OPT Machine Vision (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 156. OPT Machine Vision (CN) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. OPT Machine Vision (CN) Main Business

Table 158. OPT Machine Vision (CN) Latest Developments

Table 159. Basler (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 160. Basler (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 161. Basler (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. Basler (DE) Main Business

Table 163. Basler (DE) Latest Developments

Table 164. Precisioneers Group (DE) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 165. Precisioneers Group (DE) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 166. Precisioneers Group (DE) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 167. Precisioneers Group (DE) Main Business

Table 168. Precisioneers Group (DE) Latest Developments

Table 169. Shenzhen Carrill Technologies (CN) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 170. Shenzhen Carrill Technologies (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 171. Shenzhen Carrill Technologies (CN) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 172. Shenzhen Carrill Technologies (CN) Main Business

Table 173. Shenzhen Carrill Technologies (CN) Latest Developments

Table 174. Zhongshan Guangda Optics Instrument (CN) Basic Information, Fixed Aperture Telecentric Lenses Manufacturing Base, Sales Area and Its Competitors

Table 175. Zhongshan Guangda Optics Instrument (CN) Fixed Aperture Telecentric Lenses Product Portfolios and Specifications

Table 176. Zhongshan Guangda Optics Instrument (CN) Fixed Aperture Telecentric Lenses Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 177. Zhongshan Guangda Optics Instrument (CN) Main Business

Table 178. Zhongshan Guangda Optics Instrument (CN) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Fixed Aperture Telecentric Lenses
- Figure 2. Fixed Aperture Telecentric Lenses Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Fixed Aperture Telecentric Lenses Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Fixed Aperture Telecentric Lenses Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Fixed Aperture Telecentric Lenses Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Fixed Aperture Telecentric Lenses Sales Market Share by Country/Region (2025)
- Figure 10. Fixed Aperture Telecentric Lenses Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 1/4-1/2
- Figure 12. Product Picture of 1-2X
- Figure 13. Product Picture of 4-6X
- Figure 14. Product Picture of Other
- Figure 15. Global Fixed Aperture Telecentric Lenses Sales Market Share by Magnification in 2026
- Figure 16. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Magnification (2021-2026)
- Figure 17. Product Picture of ?100mm
- Figure 18. Product Picture of 100-300mm
- Figure 19. Product Picture of ?300mm
- Figure 20. Global Fixed Aperture Telecentric Lenses Sales Market Share by Minimum Working Distance in 2026
- Figure 21. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Minimum Working Distance (2021-2026)
- Figure 22. Product Picture of Coaxial Light Source Type
- Figure 23. Product Picture of Non-Coaxial Light Source Type
- Figure 24. Global Fixed Aperture Telecentric Lenses Sales Market Share by Coaxial Light Source in 2026
- Figure 25. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Coaxial

Light Source (2021-2026)

Figure 26. Fixed Aperture Telecentric Lenses Consumed in Semiconductors & Microelectronics

Figure 27. Global Fixed Aperture Telecentric Lenses Market: Semiconductors & Microelectronics (2021-2026) & (K Units)

Figure 28. Fixed Aperture Telecentric Lenses Consumed in Precision Machinery Manufacturing

Figure 29. Global Fixed Aperture Telecentric Lenses Market: Precision Machinery Manufacturing (2021-2026) & (K Units)

Figure 30. Fixed Aperture Telecentric Lenses Consumed in Consumer Electronics & Displays

Figure 31. Global Fixed Aperture Telecentric Lenses Market: Consumer Electronics & Displays (2021-2026) & (K Units)

Figure 32. Fixed Aperture Telecentric Lenses Consumed in Medical & Pharmaceutical

Figure 33. Global Fixed Aperture Telecentric Lenses Market: Medical & Pharmaceutical (2021-2026) & (K Units)

Figure 34. Fixed Aperture Telecentric Lenses Consumed in Machine Vision

Figure 35. Global Fixed Aperture Telecentric Lenses Market: Machine Vision (2021-2026) & (K Units)

Figure 36. Fixed Aperture Telecentric Lenses Consumed in Others

Figure 37. Global Fixed Aperture Telecentric Lenses Market: Others (2021-2026) & (K Units)

Figure 38. Global Fixed Aperture Telecentric Lenses Sale Market Share by Application (2025)

Figure 39. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Application in 2025

Figure 40. Fixed Aperture Telecentric Lenses Sales by Company in 2025 (K Units)

Figure 41. Global Fixed Aperture Telecentric Lenses Sales Market Share by Company in 2025

Figure 42. Fixed Aperture Telecentric Lenses Revenue by Company in 2025 (\$ millions)

Figure 43. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Company in 2025

Figure 44. Global Fixed Aperture Telecentric Lenses Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global Fixed Aperture Telecentric Lenses Revenue Market Share by Geographic Region in 2025

Figure 46. Americas Fixed Aperture Telecentric Lenses Sales 2021-2026 (K Units)

Figure 47. Americas Fixed Aperture Telecentric Lenses Revenue 2021-2026 (\$ millions)

Figure 48. APAC Fixed Aperture Telecentric Lenses Sales 2021-2026 (K Units)

Figure 49. APAC Fixed Aperture Telecentric Lenses Revenue 2021-2026 (\$ millions)

Figure 50. Europe Fixed Aperture Telecentric Lenses Sales 2021-2026 (K Units)

Figure 51. Europe Fixed Aperture Telecentric Lenses Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Fixed Aperture Telecentric Lenses Sales 2021-2026 (K Units)

Figure 53. Middle East & Africa Fixed Aperture Telecentric Lenses Revenue 2021-2026 (\$ millions)

Figure 54. Americas Fixed Aperture Telecentric Lenses Sales Market Share by Country in 2025

Figure 55. Americas Fixed Aperture Telecentric Lenses Revenue Market Share by Country (2021-2026)

Figure 56. Americas Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)

Figure 57. Americas Fixed Aperture Telecentric Lenses Sales Market Share by Application (2021-2026)

Figure 58. United States Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC Fixed Aperture Telecentric Lenses Sales Market Share by Region in 2025

Figure 63. APAC Fixed Aperture Telecentric Lenses Revenue Market Share by Region (2021-2026)

Figure 64. APAC Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)

Figure 65. APAC Fixed Aperture Telecentric Lenses Sales Market Share by Application (2021-2026)

Figure 66. China Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 69. Southeast Asia Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 70. India Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 73. Europe Fixed Aperture Telecentric Lenses Sales Market Share by Country in 2025

Figure 74. Europe Fixed Aperture Telecentric Lenses Revenue Market Share by Country (2021-2026)

Figure 75. Europe Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)

Figure 76. Europe Fixed Aperture Telecentric Lenses Sales Market Share by Application (2021-2026)

Figure 77. Germany Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 78. France Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa Fixed Aperture Telecentric Lenses Sales Market Share by Country (2021-2026)

Figure 83. Middle East & Africa Fixed Aperture Telecentric Lenses Sales Market Share by Magnification (2021-2026)

Figure 84. Middle East & Africa Fixed Aperture Telecentric Lenses Sales Market Share by Application (2021-2026)

Figure 85. Egypt Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey Fixed Aperture Telecentric Lenses Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries Fixed Aperture Telecentric Lenses Revenue Growth

2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of Fixed Aperture Telecentric Lenses in 2026

Figure 91. Manufacturing Process Analysis of Fixed Aperture Telecentric Lenses

Figure 92. Industry Chain Structure of Fixed Aperture Telecentric Lenses

Figure 93. Channels of Distribution

Figure 94. Global Fixed Aperture Telecentric Lenses Sales Market Forecast by Region (2027-2032)

Figure 95. Global Fixed Aperture Telecentric Lenses Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global Fixed Aperture Telecentric Lenses Sales Market Share Forecast by Magnification (2027-2032)

Figure 97. Global Fixed Aperture Telecentric Lenses Revenue Market Share Forecast by Magnification (2027-2032)

Figure 98. Global Fixed Aperture Telecentric Lenses Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global Fixed Aperture Telecentric Lenses Revenue Market Share Forecast by Application (2027-2032)

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