

# Global FA Machine Vision Lens Market Growth 2026-2032

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## Abstracts

The global FA Machine Vision Lens market size is predicted to grow from US\$ 4512 million in 2025 to US\$ 6688 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

FA machine vision lens refers to a specialized optical lens used in the field of industrial automation, mainly used in conjunction with industrial cameras to accurately image the image of the object being measured onto an image sensor for size measurement, defect detection, positioning recognition, and other scenarios. Its core features are high resolution, low distortion, high consistency, and strong long-term stability. It is usually designed with fixed focus and optimized for different target surface sizes and resolutions. It is widely used in fields such as 3C electronics, semiconductors, lithium batteries, automotive manufacturing, and precision machining. In 2025, global FA Machine Vision Lens production reached approximately 12.67 M Units, with an average global market price of around US\$ 364 per Unit. The annual production capacity of FA machine vision lenses is 20 M Units, with a gross profit margin of around 25%.

In terms of cost structure, it mainly consists of optical raw material costs, processing and manufacturing costs, assembly and testing costs, and R&D expenses. Among them, optical glass and lens materials account for about 25% to 35%, precision processing and coating account for about 20% to 30%, assembly and testing account for about 15% to 25%, and R&D and design expenses account for about 10% to 20%.

The upstream of the industrial chain mainly includes optical glass and crystal material suppliers, coating material manufacturers, precision machining equipment and mold manufacturers, the midstream is FA lens design and manufacturing enterprises, and the downstream includes machine vision system integrators, industrial camera

manufacturers, and end application industries such as semiconductor equipment, panel manufacturing, lithium battery production lines, automotive automation production lines, and intelligent manufacturing system integration. The overall industrial chain presents a technology intensive feature, and downstream demand is highly dependent on manufacturing automation upgrades.

United States market for FA Machine Vision Lens is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for FA Machine Vision Lens is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for FA Machine Vision Lens is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key FA Machine Vision Lens players cover Edmund Optics, Kowa, Fujifilm(Japan), Schneider Kreuznach(Germany), Navitar(United States), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global FA Machine Vision Lens 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 FA Machine Vision Lens portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global FA Machine Vision Lens market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for FA Machine Vision Lens and breaks down the forecast by Type, 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 FA Machine Vision Lens.

This report presents a comprehensive overview, market shares, and growth opportunities of FA Machine Vision Lens market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Fixed Focal Length Lens

Zoom Lens

Other

#### Segmentation by Interface Type:

C Type

CS Type

#### Segmentation by Application:

Vision Alignment

Dimensional Inspection

Surface Inspection

Other

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.

Edmund Optics

Kowa

Fujifilm(Japan)

Schneider Kreuznach(Germany)

Navitar(United States)

Cognex(United States)

Tamron(Japan)

Computar(Japan)

VS Technology

Ricoh

Hikrobot

Shenzhen MindVision Technology

Hangzhou Viosion Datum Technology

MORITEX Corporation

Shanghai Fugen Automation Technology

Dongguan Pomeas Precision Instrument

CK Machine Vision Technology

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global FA Machine Vision Lens market?

What factors are driving FA Machine Vision Lens market growth, globally and by region?

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

How do FA Machine Vision Lens market opportunities vary by end market size?

How does FA Machine Vision Lens break out by Type, by Application?

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