

# Global FA Machine Vision Lens Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global FA Machine Vision Lens market size is expected to reach \$ 6900 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global FA Machine Vision Lens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FA Machine Vision Lens and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of FA Machine Vision Lens that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global FA Machine Vision Lens total production and demand, 2021-2032, (K Units)

Global FA Machine Vision Lens total production value, 2021-2032, (USD Million)

Global FA Machine Vision Lens production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global FA Machine Vision Lens consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: FA Machine Vision Lens domestic production, consumption, key domestic manufacturers and share

Global FA Machine Vision Lens production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global FA Machine Vision Lens production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global FA Machine Vision Lens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global FA Machine Vision Lens market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Edmund Optics, Kowa, Fujifilm(Japan), Schneider Kreuznach(Germany), Navitar(United States), Cognex(United States), Tamron(Japan), Computar(Japan), VS Technology, Ricoh, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World FA Machine Vision Lens market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global FA Machine Vision Lens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global FA Machine Vision Lens Market, Segmentation by Type:

Fixed Focal Length Lens

Zoom Lens

Other

## Global FA Machine Vision Lens Market, Segmentation by Interface Type:

C Type

CS Type

## Global FA Machine Vision Lens Market, Segmentation by Application:

Vision Alignment

Dimensional Inspection

Surface Inspection

Other

## Companies Profiled:

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 Answered:**

1. How big is the global FA Machine Vision Lens market?
2. What is the demand of the global FA Machine Vision Lens market?
3. What is the year over year growth of the global FA Machine Vision Lens market?
4. What is the production and production value of the global FA Machine Vision Lens market?
5. Who are the key producers in the global FA Machine Vision Lens market?
6. What are the growth factors driving the market demand?

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