

Global FA Machine Vision Lens Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global FA Machine Vision Lens market size was valued at US\$ 4745 million in 2025 and is forecast to a readjusted size of US\$ 6900 million by 2032 with a CAGR of 5.5% during review period.

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 is a detailed and comprehensive analysis for global FA Machine Vision Lens market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global FA Machine Vision Lens market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FA Machine Vision Lens market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FA Machine Vision Lens market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global FA Machine Vision Lens market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for FA Machine Vision Lens

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global FA Machine Vision Lens market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

FA Machine Vision Lens market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fixed Focal Length Lens

Zoom Lens

Other

Market segment by Interface Type

C Type

CS Type

Market segment by Application

Vision Alignment

Dimensional Inspection

Surface Inspection

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe FA Machine Vision Lens product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of FA Machine Vision Lens, with price, sales quantity, revenue, and global market share of FA Machine Vision Lens from 2021 to 2026.

Chapter 3, the FA Machine Vision Lens competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the FA Machine Vision Lens breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and FA Machine Vision Lens market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of FA Machine Vision Lens.

Chapter 14 and 15, to describe FA Machine Vision Lens sales channel, distributors, customers, research findings and conclusion.

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