

# Global High-precision Optical Components for Binocular Structured-light 3D Sensing Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-precision Optical Components for Binocular Structured-light 3D Sensing market size is expected to reach \$ 451 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

High-precision optical components for binocular structured-light 3D sensing refer to precision optical elements and compact optical subassemblies used in binocular structured-light 3D sensing systems to perform structured-light projection, binocular image reception, optical path shaping, and spectral control. The main product scope includes diffractive optical elements, projection lenses, receiving-side imaging lenses, and narrow-band optical filters. Key upstream raw materials mainly include optical glass, optical-grade resins, glass or quartz substrates for DOE fabrication, coating materials, and optical adhesives, while major downstream customers include 3D sensing module manufacturers, smartphone and consumer electronics brands, smart lock and access control equipment makers, financial payment and identity-authentication terminal manufacturers, as well as robotics and security equipment suppliers. Based on an ex-factory-price approach, the global market in 2025 is estimated to have a production capacity of about 1.084 billion pcs, shipments of about 0.846 billion pcs, an average ex-factory price of about US\$0.36/pc, and a gross margin of about 28%?40%.

This report studies the global High-precision Optical Components for Binocular Structured-light 3D Sensing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-precision Optical Components for Binocular Structured-light 3D Sensing 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 High-precision Optical Components for Binocular Structured-light 3D Sensing that contribute to its increasing demand across many markets.

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

Global High-precision Optical Components for Binocular Structured-light 3D Sensing total production and demand, 2021-2032, (K Units)

Global High-precision Optical Components for Binocular Structured-light 3D Sensing total production value, 2021-2032, (USD Million)

Global High-precision Optical Components for Binocular Structured-light 3D Sensing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High-precision Optical Components for Binocular Structured-light 3D Sensing consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High-precision Optical Components for Binocular Structured-light 3D Sensing domestic production, consumption, key domestic manufacturers and share  
Global High-precision Optical Components for Binocular Structured-light 3D Sensing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High-precision Optical Components for Binocular Structured-light 3D Sensing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High-precision Optical Components for Binocular Structured-light 3D Sensing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-precision Optical Components for Binocular Structured-light 3D Sensing 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 Largan Precision, Genius Electronic Optical, Asia Optical, VIAVI Solutions, HOYA, Coherent, Nikon, Zhejiang Crystal-Optech, Hangzhou Mdk, Zhongshan Zenith Optical, 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 High-precision Optical Components for Binocular Structured-light 3D Sensing 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 High-precision Optical Components for Binocular Structured-light 3D Sensing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-precision Optical Components for Binocular Structured-light 3D Sensing Market, Segmentation by Type:

Lens Assemblies

Optical Lens Elements

Diffractive Optical Elements (DOE)

Others

Global High-precision Optical Components for Binocular Structured-light 3D Sensing Market, Segmentation by Material:

Glass

Plastic

Glass-Plastic Hybrid

Global High-precision Optical Components for Binocular Structured-light 3D Sensing Market, Segmentation by Application:

Consumer Electronics

Smart Security

Smart Home and Robotics

Others

Companies Profiled:

Largan Precision

Genius Electronic Optical

Asia Optical

VIAMI Solutions

HOYA

Coherent

Nikon

Zhejiang Crystal-Optech

Hangzhou Mdk

Zhongshan Zenith Optical

Nanjing MDTP Optics

China Optics

Yutong Optical Technology

LianChuang Electronic

Xiamen Leading Optics

FOCTEK Photonics

Fujian Forecam Optics

Lante Optics

### **Key Questions Answered:**

1. How big is the global High-precision Optical Components for Binocular Structured-light 3D Sensing market?
2. What is the demand of the global High-precision Optical Components for Binocular Structured-light 3D Sensing market?
3. What is the year over year growth of the global High-precision Optical Components for Binocular Structured-light 3D Sensing market?
4. What is the production and production value of the global High-precision Optical Components for Binocular Structured-light 3D Sensing market?
5. Who are the key producers in the global High-precision Optical Components for Binocular Structured-light 3D Sensing market?
6. What are the growth factors driving the market demand?

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