

# Global CaF<sub>2</sub> Lens Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global CaF<sub>2</sub> Lens market size is expected to reach \$ 169 million by 2032, rising at a market growth of 7.5% CAGR during the forecast period (2026-2032).

A calcium fluoride lens (CaF<sub>2</sub> lens) is an optical lens fabricated from high-purity single-crystal calcium fluoride (CaF<sub>2</sub>), characterized by an exceptionally wide transmission range, very low optical dispersion, and excellent optical homogeneity. Its transmission typically extends from the deep ultraviolet (around 130 nm) to the mid-infrared (up to about 9 μm), offering high transmittance and low absorption across both UV and IR spectral regions. Owing to its cubic crystal structure, calcium fluoride exhibits intrinsically low birefringence and a high laser damage threshold, making CaF<sub>2</sub> lenses particularly suitable for high-power laser systems, ultraviolet lithography, astronomical optics, infrared imaging, and high-precision spectroscopic instruments. In 2025, global CaF<sub>2</sub> lens reached approximately 352.67 k units. The upstream of CaF<sub>2</sub> lens mainly consists of high-purity CaF<sub>2</sub> raw materials, single-crystal growth, and optical blank preparation. Raw materials are derived either from purified natural fluorite or from chemically synthesized high-purity calcium fluoride, which are then processed through crystal growth techniques such as the Bridgman method or vertical gradient freeze (VGF) to produce large-size, low-defect single crystals suitable for optical applications. These crystals are subsequently cut and prepared as optical blanks for further lens manufacturing. The key technological barriers at the upstream stage lie in controlling impurity levels, crystal homogeneity, internal stress, and scattering defects, especially for deep ultraviolet and lithography-related applications, where extremely high purity, dimensional stability, and optical uniformity are required. Downstream, CaF<sub>2</sub> lenses are mainly supplied to manufacturers of high-end optical systems and instruments, including excimer laser and ultraviolet optical systems, semiconductor lithography illumination and projection modules, infrared spectroscopy and thermal imaging equipment, advanced microscopes and astronomical telescopes, as well as defense, aerospace,

and high-precision industrial inspection systems. End customers are typically system integrators or original equipment manufacturers (OEMs), who procure CaF<sub>2</sub> lenses either as customized components or as part of project-based supply contracts and place strong emphasis on long-term supply stability, consistent quality, and technical support capabilities.

Compared with conventional optical glass, CaF<sub>2</sub> lens provide superior chromatic aberration control and broadband performance, albeit at the cost of higher material brittleness, more complex fabrication, and higher price, which confines their use mainly to high-end optical applications. CaF<sub>2</sub> lens are premium broadband optical components valued for high transmission from deep-UV to mid-IR, low dispersion, and intrinsically low stress birefringence. The market typically splits into high-volume catalog optics (spherical/cylindrical lenses, often priced around the hundred-dollar level) and lower-volume but high-value custom/large-blank optics used in advanced spectroscopy, IR imaging, excimer-laser systems, and parts of the microlithography optics supply chain. This report studies the global CaF<sub>2</sub> Lens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CaF<sub>2</sub> 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 CaF<sub>2</sub> Lens that contribute to its increasing demand across many markets.

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

Global CaF<sub>2</sub> Lens total production and demand, 2021-2032, (K Units)

Global CaF<sub>2</sub> Lens total production value, 2021-2032, (USD Million)

Global CaF<sub>2</sub> Lens production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global CaF<sub>2</sub> Lens consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: CaF<sub>2</sub> Lens domestic production, consumption, key domestic manufacturers and share

Global CaF<sub>2</sub> Lens production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global CaF<sub>2</sub> Lens production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global CaF<sub>2</sub> Lens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global CaF<sub>2</sub> 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 Canon Optron, Corning Incorporated, Nikon, SigmaKoki

(OptoSigma), LightPath Technologies, Thorlabs, Edmund Optics, Lambda Research Optics, Crystran, Knight 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 CaF2 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 CaF2 Lens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CaF2 Lens Market, Segmentation by Type:

Spherical Lens

Aspheric Lens

Global CaF2 Lens Market, Segmentation by Spectral Band:

DUV/UV

VIS-NIR

MWIR/LWIR

#### Global CaF<sub>2</sub> Lens Market, Segmentation by Quality & Compliance Level:

Commercial Grade

Industrial Grade

MIL / Space Grade

#### Global CaF<sub>2</sub> Lens Market, Segmentation by Aperture Size:

Small Aperture (<25 mm)

Medium Aperture (25-100 mm)

Large Aperture (>100 mm)

#### Global CaF<sub>2</sub> Lens Market, Segmentation by Application:

Astronomy and Photography Equipment

Laser Equipment

Microscope

Other

#### **Companies Profiled:**

Canon Optron

Corning Incorporated

Nikon

SigmaKoki (OptoSigma)

LightPath Technologies

Thorlabs

Edmund Optics

Lambda Research Optics

Crystran

Knight Optical

EKSMA Optics

Alkor Technologies

UQG Optics

Global Optics

Grand Unified Optics

Hyperion Optics

HENG YANG GUANG XUE

Warmth Optics Technology Co., LTD

Shanghai Optics

Unice E-O Services Inc

HG Optronics., INC

Ootee

MT-Optics

FUZHOU Tempotec Optics Co., Ltd

Intrinsic Crystal Technology Co., Ltd

**Key Questions Answered:**

1. How big is the global CaF<sub>2</sub> Lens market?
2. What is the demand of the global CaF<sub>2</sub> Lens market?
3. What is the year over year growth of the global CaF<sub>2</sub> Lens market?
4. What is the production and production value of the global CaF<sub>2</sub> Lens market?
5. Who are the key producers in the global CaF<sub>2</sub> Lens market?
6. What are the growth factors driving the market demand?

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