

Global Infrared Security Lens Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Security Lens market size is expected to reach \$ 2969 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

Infrared Security Lens is an optical lens used in security and surveillance cameras that is optimized for both visible and infrared light transmission, enabling stable image focus and clear night-vision performance in CCTV, IP cameras, smart surveillance systems, traffic monitoring, perimeter security, and industrial security applications.

In 2025, global Infrared Security Lens sales volume reached approximately 345 million units, with an average price of approximately US\$ 6 per unit

1. Infrared Security Lens demand is rising as 24-hour and night-vision surveillance becomes a standard requirement. Outdoor CCTV, IP cameras, traffic cameras, warehouses, parking lots, industrial sites, and perimeter security systems increasingly require clear imaging in both daytime and low-light/nighttime conditions. Day/night cameras use visible light in the day and infrared light at night to produce grayscale images, so lenses must maintain focus when the camera switches between visible and IR imaging. This supports wider use of IR-corrected lenses rather than ordinary visible-light lenses.

2. Higher-resolution security cameras are pushing IR lenses toward megapixel, 4K, low-distortion, and better day/night optical performance. Modern surveillance systems increasingly use HD, 4MP, 8MP/4K and AI-enabled cameras, which require lenses with higher sharpness, better edge clarity, lower distortion, better coating, and stronger IR transmission. Axis, for example, states that its CS lenses support megapixel resolution and IR correction for day/night cameras, showing that IR correction is now being

combined with high-resolution optical requirements.

3. Product differentiation is moving toward varifocal, motorized zoom, and application-specific IR lenses. Basic fixed IR lenses remain widely used in home and small commercial cameras, but higher-value demand is shifting toward varifocal IR lenses, motorized zoom IR lenses, telephoto IR lenses, and wide-angle IR lenses for smart city, traffic, industrial, border, airport, and perimeter security. Remote zoom/focus and iris control are becoming more important because installers want flexible field-of-view adjustment without repeated manual focusing, especially when cameras switch between day and night mode.

This report studies the global Infrared Security Lens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Security 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 Infrared Security Lens that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Infrared Security Lens total production and demand, 2021-2032, (K Units)

Global Infrared Security Lens total production value, 2021-2032, (USD Million)

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

Global Infrared Security Lens consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Infrared Security Lens domestic production, consumption, key domestic manufacturers and share

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

Global Infrared Security Lens production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Infrared Security Lens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Security 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 YTOT, Union Optech, Sunny Optical, Kowa, Xiamen Leading Optics, Fujifilm, Tamron, CBC, Forecam, Nanyang Lida Optic-electronics, 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 Infrared Security 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 Infrared Security Lens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Security Lens Market, Segmentation by Type:

Fixed Focal Lens

Varifocal Lens

Motorized Zoom Lens

Global Infrared Security Lens Market, Segmentation by Lens:

Wide-Angle Lens

Standard Lens

Telephoto Lens

Global Infrared Security Lens Market, Segmentation by Product:

CS-mount Lens

C-mount Lens

Other

Global Infrared Security Lens Market, Segmentation by Application:

Residential

Commercial

Industrial

Companies Profiled:

YTOT

Union Optech

Sunny Optical

Kowa

Xiamen Leading Optics

Fujifilm

Tamron

CBC

Forecam

Nanyang Lida Optic-electronics

Kenko Tokina

Wintop Optics

Foctek

Theia Technologies

Key Questions Answered:

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

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