

Global Elevator Infrared Light Curtain Market Growth 2026-2032

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Abstracts

The global Elevator Infrared Light Curtain market size is predicted to grow from US\$ 1055 million in 2025 to US\$ 1543 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Elevator infrared light curtain is a non-contact door area safety protection device installed on both sides of elevator car doors or landing doors, which forms a dense 'light grating protective curtain' using multiple beams of infrared rays. It consists of a transmitting unit on one side and a receiving unit on the other side, with dozens to hundreds of pairs of infrared transmitting/receiving tubes arranged inside. It scans the doorway area in real time. Once a person, child, wheelchair, stroller, suitcase, or even a slender object blocks any beam of light, it immediately sends a signal to the elevator control system to prevent the door from closing or to instruct it to reopen. This avoids the problems that traditional mechanical touch panels may have, such as 'slow action, many blind spots, and insensitivity to small targets'. It significantly reduces the risk of people and objects being trapped and is one of the most widely used and cost-effective core safety components in modern elevator door systems. 2025 sales volume: 2.4 million units, average price: \$425/unit. Annual production capacity: 2.8 million units, gross profit margin: approximately 40%.

From the demand side, elevator infrared light curtains have almost become a standard safety component installed 'with the elevator at the factory.' Its market logic closely follows the curves of new elevator installations and the upgrading and renovation of existing elevators. On one end is the new market: urbanization, urban renewal, and the construction of rail transit and municipal transportation hubs bring new elevator installations. Infrared light curtains are installed in conjunction with the entire elevator system, gradually upgrading from 'ordinary' to 'high beam density, enhanced anti-

interference' types. On the other end is the existing market: many elevators installed 10-20 years ago still use mechanical touch panels or early low-density light curtains. With stricter safety regulations, amplified public opinion regarding risk incidents, and increased sensitivity to passenger safety in older residential areas and medical/elderly care institutions, 'safety upgrade and renovation of old elevators' projects across the country are actually providing infrared light curtain suppliers with a second round of installation opportunities. The same elevator, throughout its entire life cycle, is likely to experience both 'initial installation + mid-term replacement' demand, extending the cash flow cycle of this component.

From the perspective of supply and competition, elevator infrared light curtains represent a typical 'small and fragmented' component sector, but with relatively high technical and certification barriers. In the low-end segment, the market is already highly domestically produced. Products with dozens of beams and basic protection levels are priced very low, and the competition is more about economies of scale, delivery time, and experience in adapting to various elevator mainframe manufacturers. What can truly generate a premium are several capabilities: First, providing highly reliable light curtains that maintain low false alarms and low false alarms even in environments with oil, dust, and strong light interference, for high-frequency operating conditions such as subways, hospitals, and heavy-duty shopping malls; second, packaging infrared light curtains with door operator control boards and remote monitoring modules to output 'door system safety sub-solutions,' rather than selling just a single light curtain strip; and third, further evolving towards 'intelligent door area perception,' combining with 3D vision, ToF, or AI algorithms to more accurately identify difficult-to-detect targets such as children's fingers, canes, and luggage poles, and incorporating fault and self-diagnostic data into the elevator safety cloud platform. For the industry chain and investors, the real opportunity in the future does not lie in continuing to increase the unit price of basic infrared gratings, but in who can integrate 'infrared light curtain + door system + cloud security data' and become a long-term partner for elevator manufacturers and large property management/urban investment companies in 'door area security capabilities'.

LP Information, Inc. (LPI) ' newest research report, the "Elevator Infrared Light Curtain Industry Forecast" looks at past sales and reviews total world Elevator Infrared Light Curtain sales in 2025, providing a comprehensive analysis by region and market sector of projected Elevator Infrared Light Curtain sales for 2026 through 2032. With Elevator Infrared Light Curtain sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Elevator Infrared Light Curtain industry.

This Insight Report provides a comprehensive analysis of the global Elevator Infrared Light Curtain landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Elevator Infrared Light Curtain portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Elevator Infrared Light Curtain market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Elevator Infrared Light Curtain and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Elevator Infrared Light Curtain.

This report presents a comprehensive overview, market shares, and growth opportunities of Elevator Infrared Light Curtain market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Infrared Tubes: 17 Pairs

Infrared Tubes: 20 Pairs

Infrared Tubes: 32 Pairs

Others

Segmentation by Technical Form:

Infrared Sensing

Smart / Redundancy Type

Segmentation by Installation Type:

Standard / Surface Mounted

Slim / Concealed Profile

Segmentation by Application:

Residential

Commercial

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

VEGA

CEDES

FORMULA SYSTEMS

TL JONES

AVIRE

KMISEN

CEP

Adams GateKeeper

Orbital Systems

TELCO

CENTA Elevator

Sunny Elevator

WECO OPTOELECTRONICS

SAFETY ELECTRONICS

Zaag Technology

G-TEK SENSOR TECHNOLOGY

Laien Optic Electronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Elevator Infrared Light Curtain market?

What factors are driving Elevator Infrared Light Curtain market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Elevator Infrared Light Curtain market opportunities vary by end market size?

How does Elevator Infrared Light Curtain break out by Type, by Application?

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