

Global Infrared Perimeter Security Alarm System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Perimeter Security Alarm System market size is expected to reach \$ 2634 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

An infrared perimeter security alarm system is an electronic security solution that utilizes infrared radiation detection technology for real-time monitoring and intrusion alerting along specific spatial boundaries. The core hardware typically consists of Active Infrared (AIR) and Passive Infrared (PIR). AIR functions by creating invisible beams (or 'curtains') between a transmitter and a receiver, triggering an alarm when the beam is interrupted. PIR identifies targets by sensing thermal radiation differentials between the environment and the intruder. Modern systems are highly integrated with AI algorithms and multi-sensor fusion to mitigate nuisance alarms caused by adverse weather. In 2025, the global infrared perimeter security alarm system market demonstrated steady growth. Total sales reached approximately 11.8 million units, with the average selling price (ASP) remaining stable at around US\$129 per unit. In terms of profitability, the industry's average gross margin remained between 35% and 50%.

Upstream: Core Components & Raw Materials

Includes IR transmitter/receiver chips (GaAs, InP materials), aspheric optical lenses, sensor housings (UV-resistant PC materials), and edge-computing NPU chips. This segment has high technical barriers, with core optical technologies predominantly held by leading firms in Japan and the U.S.

Midstream: Manufacturers & Brand Owners

Responsible for product design, assembly, and algorithm integration. Key players include Japan's OPTEX and TAKEX, alongside China's Hikvision and Dahua. This segment is transitioning from pure hardware manufacturing to 'Hardware + AI Services.'

Downstream: System Integration & End-use

System Integrators (SIs) integrate IR alarms with video surveillance and central management platforms. End-users span PV plants, industrial parks, borders, military bases, and high-end residential estates. Driven by the global energy transition, PV Power Plants have become the fastest-growing downstream sector for IR alarm hardware in the past two years.

This report studies the global Infrared Perimeter Security Alarm System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Infrared Perimeter Security Alarm System total production and demand, 2021-2032, (K Units)

Global Infrared Perimeter Security Alarm System total production value, 2021-2032, (USD Million)

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

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

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

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

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

Global Infrared Perimeter Security Alarm System production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Infrared Perimeter Security Alarm System 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 OPTEX, TAKEX, CIAS, Honeywell, Johnson Controls, Bosch, Hikvision, Dahua, Teledyne FLIR, 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 Perimeter Security Alarm System 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 Perimeter Security Alarm System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Perimeter Security Alarm System Market, Segmentation by Type:

Active Infrared(AIR)

Passive Infrared(PIR)

Global Infrared Perimeter Security Alarm System Market, Segmentation by Transmission Method:

Wired System

Wireless System

Global Infrared Perimeter Security Alarm System Market, Segmentation by Application:

Military

Industrial

Civilian

Companies Profiled:

OPTEX

TAKEX

CIAS

Honeywell

Johnson Controls

Bosch

Hikvision

Dahua

Teledyne FLIR

Key Questions Answered:

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

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