

Global Infrared (IR) Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared (IR) Sensor market size is expected to reach \$ 3161 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Infrared (IR) Sensor sales reached approximately 221.33 M Units, with an average global market price of around US\$ 8.36 per Units.

An Infrared (IR) sensor is a device that detects infrared radiation and converts it into an electrical signal, enabling temperature measurement, thermal mapping, presence/motion detection, and gas sensing based on characteristic IR absorption. In general, IR sensors fall into two major categories: photon (photonic) detectors that rely on semiconductor photoelectric effects (e.g., InGaAs, InSb, MCT) for high-speed, high-sensitivity detection from near-IR to mid-IR, and thermal detectors (e.g., thermopiles, pyroelectric sensors, microbolometers) that measure radiation-induced heating, widely used for thermometry, human detection, and thermal imaging. IR sensors are deployed across industrial monitoring and process control, security and automotive perception, consumer electronics, medical measurement, and NDIR gas sensing applications.

Production Model

IR sensors are mass-produced through a 'platform die + standardized packaging + application-grade calibration' model. Upstream inputs include silicon/compound wafers, thermo-/piezo-electric materials, ceramic substrates, and packaging consumables. In cleanrooms, manufacturers run MEMS and thin-film steps (deposition, lithography/etch, absorber and electrode formation), followed by hermetic or vacuum packaging (TO can, QFN/LGA, ceramic packages). Optical components such as IR windows and band-pass filters are assembled, then devices undergo programming and drift-compensation calibration (blackbody calibration, lot-based coefficient fitting) before binning and shipment. Leading suppliers typically operate as IDM or 'fab-lite + OSAT' hybrids: they keep the sensing structure and algorithms in-house while outsourcing part of packaging and testing to scale capacity and flexibility. Some also ship sensor modules to raise

ASP and stickiness.

Gross Margin

Margins vary widely by product tier and qualification: consumer PIR/thermopile devices often run around 25%?45%; industrial/automotive-grade sensors with tighter specs and calibration commonly reach 35%?55%; high-end detector arrays or module-based offerings can move toward 45%?65%, constrained by yield, packaging complexity, and long certification cycles.

Value Chain

Upstream: Si/compound wafers, MEMS materials (SiN/SiO₂ films, absorbers), thermo-/piezo-electric materials, ceramic/metal packages, IR windows and optical filters, blackbody and test equipment.

Midstream: sensor design and fabrication (MEMS/CMOS, ROIC/AFE), packaging and test (hermetic/vacuum, burn-in), calibration and binning, automotive/safety certifications.

Downstream: consumer electronics and appliances (temperature and presence sensing), security/building automation, automotive (in-cabin monitoring, HVAC, night-vision-related supply chain), industrial process and medical thermometry, smart devices and IoT.

Market Development Opportunities & Main Driving Factors

Infrared sensors are expanding from basic temperature reading and motion detection into system-level penetration across two structural demand engines: buildings and vehicles. On the building side, government-led frameworks for energy efficiency and decarbonization are strengthening, pushing operations from 'passive efficiency' to 'data-driven control,' where occupancy/presence sensing and contactless thermal measurement (PIR, thermopile, etc.) become foundational inputs for HVAC, lighting, and energy management at scale. On the automotive side, regulatory regimes in Europe and other markets are rolling out safety functions?such as driver drowsiness and attention warning?under defined timetables, while in-cabin intelligence is cascading from premium trims to mainstream platforms. This makes IR's robustness under harsh contrast and low-light conditions a key content driver. In parallel, annual reporting by automotive sensor suppliers continues to highlight productization progress in IR-based thermal and sensing technologies, reinforcing IR sensing as a long-cycle platform roadmap with durable medium- to long-term visibility.

Market Challenges, Risks, & Restraints

The commercialization barrier is increasingly about manufacturability, consistency, and audit-ready compliance rather than point performance. Thermal devices are highly sensitive to hermetic packaging, IR window/filter uniformity, calibration discipline, and drift compensation; yield swings can rapidly translate into cost pressure. Automotive and industrial customers also require stringent reliability, traceability, and supply continuity, extending qualification cycles and raising inventory/capacity mismatch

risks?making delivery cadence and cash-flow timing more exposed to macro volatility. Some annual reports explicitly flag the operational impact of temporary supply?demand imbalances and demand fluctuations in the automotive chain, implying that IR sensors?despite benefiting from rising content per system?must still be managed through cyclical and supply-chain constraints. In addition, in-cabin applications face data governance and privacy expectations; unclear data boundaries, authorization, and traceability can create regulatory and reputational risks that slow deployment.

Downstream Demand Trends

Three downstream shifts are becoming clear. First, classic PIR motion detection is upgrading toward higher-resolution presence and micro-motion sensing, reducing false triggers while enabling granular efficiency, space analytics, and building digital operations?pushing suppliers from components to integrated 'sensor + algorithm + system interface' solutions. Second, automotive cabin intelligence is pulling IR from temperature and basic sensing into AI-coupled driver/occupant state detection. With regulatory rollout and evolving safety-rating schemes, penetration is likely to keep rising and become a meaningful driver of sensor content per vehicle. Third, industrial safety and energy use cases increasingly value stable, low-maintenance, mass-calibratable IR measurement. Thermopile and related IR devices are repeatedly emphasized in brokerage research and corporate disclosures for gas detection, flame monitoring, and process safety?signaling an upgrade from low-cost consumer components to mission-critical enablers of safety and efficiency.

This report studies the global Infrared (IR) Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Infrared (IR) Sensor total production and demand, 2021-2032, (Million Units)

Global Infrared (IR) Sensor total production value, 2021-2032, (USD Million)

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

Global Infrared (IR) Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Infrared (IR) Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Infrared (IR) Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Infrared (IR) Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Infrared (IR) Sensor 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 Hamamatsu Photonics, Excelitas Technologies, Murata Manufacturing, Raytheon, InfraTec, Teledyne, Honeywell, Texas Instruments, Nippon Ceramic, ams OSRAM, 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 (IR) Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 (IR) Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared (IR) Sensor Market, Segmentation by Type:

Thermal Infrared (TIR) Sensor

Quantum Infrared (QIR) Sensor

Global Infrared (IR) Sensor Market, Segmentation by Operating Mode:

Passive IR

Active IR

Global Infrared (IR) Sensor Market, Segmentation by Detection Band:

Near-Infrared

Mid-Wavelength Infrared

Long-Wavelength Infrared

Global Infrared (IR) Sensor Market, Segmentation Spatial Resolution:

Single Point

Array/Imaging

Global Infrared (IR) Sensor Market, Segmentation by Application:

Military, Defense & Aerospace

Healthcare & Medical

Automotive & Intelligent Transportation

Manufacturing & Energy

Commercial Security & Smart Building

Consumer Electronics & Telecommunications

Agriculture & Environment

Others

Companies Profiled:

Hamamatsu Photonics

Excelitas Technologies

Murata Manufacturing

Raytheon

InfraTec

Teledyne

Honeywell

Texas Instruments

Nippon Ceramic

ams OSRAM

Panasonic

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Lynred

Leonardo DRS

BAE Systems

Heimann

Melexis

Amphenol Advanced Sensors

TE Connectivity

Wuhan Guide

Raytron Microelectronics

Dali Technology

Senba

Sunshine Technologies

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Key Questions Answered:

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

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