

**Infrared Detector Market by Thermal Detector (Pyroelectric, Thermopile),
Photodetector (Indium Gallium Arsenide), Cooled, Uncooled, Mid-Wave Infrared,
Long-wave Infrared, People & Motion Sensing, Security & Surveillance Global
Forecast to 2030**

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Report description:

The global infrared detector market is projected to grow from USD 0.65 billion in 2025 to USD 1.02 billion by 2030, at a CAGR of 9.6% during the forecast period. Rising safety and security needs, defense modernization, smart city initiatives, and the increasing use of detectors in automotive ADAS, healthcare thermography, and smart home devices fuel the market's growth. Additionally, advancements in uncooled detector technology, miniaturization, and IoT/AI integration are making infrared sensors more affordable and scalable, further accelerating their adoption across industrial and consumer applications.

<https://mnmimg.marketsandmarkets.com/Images/ir-detector-market-img-overview.webp>

"The non-industrial/institutional/service-oriented (direct consumption) segment is projected to grow at a higher CAGR than the industrial/manufacturing (B2B integration into processes/products) segment during the forecast period."

By vertical, the non-industrial/manufacturing segment is projected to achieve a higher CAGR than the industrial/manufacturing segment during the forecast period. This projected segment growth is supported by the increasing adoption of detectors in residential & commercial buildings, healthcare facilities, and scientific research applications. Additionally, the rising demand for smart homes and building automation is driving the integration of infrared sensors in motion detection, fire safety, and energy management systems. In the healthcare sector, detectors are increasingly used for non-contact thermography, patient monitoring, and biomedical imaging, as they help improve diagnostic accuracy and patient safety. Moreover, research institutions

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are adopting infrared detectors in spectroscopy, astronomy, and advanced material studies, expanding their use beyond traditional industrial applications. These factors, combined with growing investments in public safety and academic R&D initiatives, position the non-industrial/manufacturing segment to achieve significant growth during the forecast period.

"The thermopile segment is projected to account for a significant share in the infrared detector market during the forecast period."

The thermopile segment is projected to account for the largest share during the forecast period by thermal detector type. This projected segment growth can be attributed to the low cost of thermopile detectors, their durability, and their ability to operate without cooling, making them ideal for integration into consumer electronics, smart devices, and industrial monitoring systems. Additionally, their compact size and energy efficiency are driving their adoption in temperature measurement, smart appliances, and HVAC systems. Moreover, thermopile detectors are being increasingly deployed in gas detection, environmental monitoring, and medical thermometers, owing to their reliability and non-contact measurement capabilities. This growing demand for affordable infrared solutions in automotive cabin monitoring and portable medical devices further boosts their uptake. These advantages make thermopiles highly versatile and ensure they remain preferred across mass-market and specialized applications.

"Canada is projected to register the highest growth in the infrared detector market between 2025 and 2030."

Canada is projected to register the highest CAGR in the infrared detector market during the forecast period. Canada's strong market growth is driven by increasing investments in defense modernization, border security, and public safety initiatives, which are boosting the adoption of infrared detectors in surveillance and imaging applications. The country's expanding focus on smart infrastructure and building automation further contributes to demand, integrating infrared sensors into fire detection, energy management, and occupancy monitoring systems. Additionally, the growing adoption of infrared imaging in medical diagnostics, environmental monitoring, and industrial automation is widening the scope of applications. Supportive government programs and partnerships between Canadian research institutions and global manufacturers are also accelerating technological adoption and positioning Canada as one of the fastest-growing markets.

Extensive primary interviews were conducted with key industry experts in the infrared detector market space to determine and verify the market size for various segments and subsegments gathered through secondary research.

The breakdown of primary participants for the report is given below:

-□By Company Type: Tier 1 - 20%, Tier 2 - 45%, Tier 3 - 35%

-□By Designation: C-level Executives - 35%, Directors - 25%, Others - 40%

-□By Region: North America - 45%, Europe - 25%, Asia Pacific - 20%, RoW - 10%

The infrared detector market is dominated by a few globally established players, such as Teledyne Technologies (US), Texas Instruments Incorporated (US), Excelitas Technologies Corp. (US), Murata Manufacturing Co., Ltd. (Japan), and Lynred (France). The study includes an in-depth competitive analysis of key players in the infrared detector market and their company profiles, recent developments, and key market strategies.

Study Coverage:

The report segments the infrared detector market and forecasts its size by type (Thermal detector, photodetector), technology (cooled, uncooled), wavelength (Near-Infrared (NIR), short-wave infrared (SWIR), mid-wave infrared (MWIR), long-wave infrared (LWIR), vertical (industrial, non-industrial), application (People & motion sensing, temperature measurement, security & surveillance, gas & fire detection, spectroscopy & biomedical imaging, and other applications).

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The report discusses the market's drivers, restraints, opportunities, and challenges, and provides a detailed view of the market across North America, Europe, Asia Pacific, and the Rest of the World. It includes a supply chain analysis of the key players and their competitive analysis in the infrared detector market ecosystem.

Key Benefits of Buying the Report:

- Analysis of key drivers (Demand acceleration for thermal imaging across mission-critical defense, automotive, industrial, and healthcare ecosystems; operational excellence fueled by cost-efficient uncooled infrared modules across industrial and smart manufacturing sectors), restraints (High cost & complexity of cooled detectors; regulatory hurdles and complexities, including export controls in defense and aerospace sectors), opportunities (Adoption of SWIR/NIR modules fueling precision inspection and automotive safety innovation, material innovation with quantum dots and CMOS-compatible IR redefining cost economics), challenges (Long-term performance risks from thermal instability impacting mission-critical sensing)
- Product Development/Innovation: Detailed insights into upcoming technologies, research and development activities, and product launches in the infrared detector market
- Market Development: Comprehensive information about lucrative markets across varied regions
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the infrared detector market
- Competitive Assessment: In-depth assessment of market share, growth strategies, and service offerings of leading players, such as Teledyne Technologies (US), Texas Instruments Incorporated (US), Excelitas Technologies Corp. (US), Murata Manufacturing Co., Ltd. (Japan), and Lynred (France), in the infrared detector market

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