

**Infrared Imaging Market by Type (Reflective, Thermal), Wavelength (NIR, SWIR, MWIR, LWIR), Component (Cameras, Scopes, Modules), Technology (Cooled, Uncooled), Application (Condition Monitoring, Detection, Security & Surveillance)-  
Global Forecast to 2030**

Market Report | 2025-08-05 | 265 pages | MarketsandMarkets

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**Report description:**

Infrared (IR) imaging technology is gaining significant traction in the automotive sector, driven by the growing demand for safety, automation, and energy efficiency. Thermal cameras are increasingly integrated into advanced driver-assistance systems (ADAS) for pedestrian and animal detection, especially in low-visibility conditions such as night-time driving or fog. These systems enhance situational awareness and reduce the risk of accidents, aligning with rising safety regulations and consumer expectations. Additionally, infrared imaging supports electric vehicle (EV) battery monitoring and thermal management, which are critical for performance and safety. In manufacturing, IR cameras are used in automotive assembly lines for quality assurance, checking weld integrity, and component alignment. Moreover, with the rise of autonomous vehicles, thermal sensors are being integrated alongside LiDAR, radar, and visible cameras to create a multi-modal perception system capable of operating in various environments. The technology also finds applications in in-cabin occupant monitoring for driver fatigue detection and climate control optimization. As automotive OEMs and Tier 1 suppliers increasingly explore these capabilities, IR imaging presents lucrative opportunities for innovation, partnerships, and market expansion within the mobility ecosystem.

<https://www.marketsandmarkets.com/Images/infrared-IR-sensing-imaging-market.webp>

"Market for SWIR in wavelength segment to grow at highest CAGR during forecast period."

Short-wave Infrared (SWIR) technology is expected to record the highest CAGR within the wavelength segment due to its increasing use in industrial quality inspection, semiconductor manufacturing, and military imaging applications. Unlike long-wave

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or mid-wave IR, SWIR enables high-resolution imaging through glass and silicon materials, making it ideal for inspecting solar cells, electronic wafers, and food products. It effectively detects invisible moisture, contaminants, and invisible defects under visible or thermal imaging. Additionally, SWIR cameras provide enhanced imaging under harsh environmental conditions, including smoke, fog, and low-light environments, which is advantageous in surveillance and aerospace applications. Military forces utilize SWIR for covert operations, as it supports laser illumination in low-light scenarios without revealing positions. Moreover, the emergence of lower-cost indium gallium arsenide (InGaAs) sensors is improving SWIR affordability and broadening its accessibility across sectors. The growing emphasis on precision manufacturing, material sorting, and high-performance surveillance is accelerating the adoption of SWIR, making it one of the fastest-growing segments within the infrared imaging market, by wavelength.

"Monitoring & inspection segment to exhibit highest CAGR in infrared imaging market, by application, during forecast period"

The monitoring & inspection segment is projected to witness the highest CAGR in the infrared imaging market, as industries increasingly rely on thermal imaging for predictive maintenance, process optimization, and safety assurance. Infrared cameras are essential for identifying equipment failures, detecting hotspots in electrical systems, and monitoring thermal performance in real time. Industries such as manufacturing, oil & gas, power generation, and utilities use IR imaging to prevent costly downtimes and enhance asset longevity. With the rise of Industry 4.0, IR imaging is also being integrated into automated inspection systems and IoT-enabled devices, offering continuous and remote diagnostics. These systems can identify early signs of component degradation, reduce unplanned shutdowns, and improve operational efficiency. Furthermore, thermal inspection is non-contact and non-destructive, allowing for safe evaluation of high-voltage or high-temperature equipment. Demand for advanced IR monitoring solutions continues to grow as more companies prioritize operational reliability, energy efficiency, and compliance with safety regulations. This makes the monitoring and inspection application one of the most dynamic and rapidly expanding areas in the infrared imaging landscape.

"North America to capture largest market share throughout forecast period"

North America is expected to maintain the largest share of the infrared imaging market throughout the forecast period, driven by substantial defense investments, advanced industrial infrastructure, and robust technology innovation. The US, in particular, leads the region with widespread deployment of IR imaging technologies in military surveillance, border security, and law enforcement. Major players such as FLIR Systems, Teledyne, and RTX have deep roots in the region, contributing to product development and rapid commercialization. In addition to defense, IR imaging is highly adopted in electrical inspection, smart manufacturing, building diagnostics, and healthcare applications. Government funding for R&D and a favorable regulatory framework supporting critical infrastructure protection and industrial safety accelerate market adoption. The region's leadership in AI, IoT, and automation technologies further strengthens its position, as infrared imaging increasingly integrates with intelligent systems for real-time data analysis and decision-making. With high purchasing power, early technology adoption, and an established ecosystem of end users and innovators, North America remains the most mature and dominant region in the global infrared imaging market.

In-depth interviews have been conducted with chief executive officers (CEOs), directors, and other executives from various key organizations operating in the infrared imaging marketplace. The breakup of the profile of primary participants in the infrared imaging market is as follows:

- By Company Type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%
- By Designation: C-level Executives - 40%, Directors - 30%, and Others - 30%
- By Region: North America - 35%, Europe - 20%, Asia Pacific - 35%, and RoW - 10%

Teledyne FLIR LLC (US), Fluke Corporation (US), Leonardo S.p.A. (US), Axis Communications AB. (Sweden), L3Harris Technologies, Inc. (US), RTX (US), Exosens (France), Opgal, Optronic Industries Ltd. (Israel), Lynred (France), Allied Vision Technologies GmbH (Germany), BAE Systems (UK), and Testo SE & Co. KGaA (Germany) are some major players in the infrared imaging market. The study includes an in-depth competitive analysis of these key players in the infrared imaging market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

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This research report categorizes the infrared imaging market, by type (reflective, thermal), component (cameras, scopes, modules), technology (cooled, uncooled), wavelength (NIR, SWIR, MWIR, LWIR), application (security & surveillance, monitoring & inspection, detection), vertical (industrial, non-industrial), and region (North America, Europe, Asia Pacific, RoW). It analyzes major factors influencing market growth, including drivers, restraints, challenges, and opportunities. The report also provides insights into key industry players, their strategies, contract activities, and recent developments, along with a competitive analysis of emerging startups in the market.

#### Reasons to Buy This Report:

The report will help market leaders and new entrants with information on the closest approximations of the infrared imaging market's revenue numbers and subsegments. It will also help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

#### Key Benefits of Buying the Report:

-□ Analysis of key drivers increasing use of infrared imaging products in security & surveillance applications, rising adoption of infrared cameras in quality control and inspection applications, growing popularity of uncooled infrared cameras, boosting demand for SWIR cameras in machine vision applications), restraints (stringent import and export regulations for selling infrared cameras in US, limitations associated with image resolution and sensitivity of infrared cameras), opportunities (emerging applications of IR imaging technology in automotive sector, newer application areas of SWIR cameras, integration of infrared imaging technology into consumer electronics), and challenges (high cost associated with infrared cameras, designing highly accurate IR imaging products, integration and compatibility challenges pertaining to infrared imaging technology) influencing the growth of the infrared imaging market

-□ Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and product and service launches in the infrared imaging market

-□ Market Development: Comprehensive information about lucrative markets by analyzing the infrared imaging market across varied regions

-□ Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the infrared imaging market

-□ Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading companies, such as Teledyne FLIR LLC (US), Fluke Corporation (US), Leonardo S.p.A. (US), and Axis Communications AB. (Sweden), L3Harris Technologies, Inc. (US), RTX (US), Exosens (France), Opgal, Optronix Industries Ltd. (Israel), Lynred (France), Allied Vision Technologies GmbH (Germany), BAE Systems. (UK), and Testo SE & Co. KGaA (Germany) in the infrared imaging market.

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