

# Global Infrared and Thermal Imaging Systems Market Size Study & Forecast, by Application, Type, Technology, End Use, and Regional Forecasts 2025-2035

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## Abstracts

The Global Infrared and Thermal Imaging Systems Market was valued at approximately USD 8.22 billion in 2024 and is projected to grow steadily at a CAGR of 3.57% from 2025 to 2035. As the global security landscape intensifies and cross-sectoral demands for non-contact, high-precision monitoring rise, thermal and infrared imaging technologies are poised to take center stage. These systems have transcended their traditional defense-centric utility to now become indispensable in civilian domains such as healthcare diagnostics, predictive maintenance in manufacturing, and automotive driver assistance. Leveraging the ability to detect thermal variations and operate in zero-light conditions, these systems offer unmatched surveillance, diagnostic, and safety capabilities, fostering their integration across commercial and industrial infrastructures globally.

The heightened need for proactive security and surveillance measures, particularly in border control, public infrastructure, and smart city projects, has ushered in robust demand for uncooled and cooled thermal imaging solutions. While uncooled technology remains dominant due to cost-efficiency and compact design, cooled imaging continues to command preference in critical, high-performance applications such as aerospace, military targeting, and long-range surveillance. Moreover, applications in autonomous vehicles, where thermal cameras serve as vision enablers in low-light environments, are increasingly influencing product design and innovation. However, market expansion is occasionally hindered by the high production cost of cooled sensors, licensing restrictions on certain defense-grade technologies, and environmental regulations that impact sensor materials.

From a regional perspective, North America held the largest market share in 2025, primarily due to its formidable defense spending, early adoption of advanced imaging technologies, and widespread deployment in homeland security and smart infrastructure initiatives. Europe follows with its integration of thermal imaging in automotive safety systems and growing military modernization efforts, particularly in countries like Germany and France. The Asia Pacific region is emerging as the most dynamic growth frontier, driven by smart city initiatives, rapid industrialization, and increasing defense budgets across China, India, and South Korea. Additionally, heightened concern around critical infrastructure protection and public safety has created a fertile environment for thermal and infrared technologies to thrive.

Major market player included in this report are:

Teledyne FLIR LLC

L3Harris Technologies

Leonardo DRS

FLUKE Corporation

BAE Systems

Axis Communications AB

Raytheon Technologies Corporation

Thermoteknix Systems Ltd.

Opgal Optronic Industries Ltd.

HGH Infrared Systems

Seek Thermal, Inc.

Lynred (Formerly ULIS)

Zhejiang Dali Technology Co., Ltd.

Infratec GmbH

Hamamatsu Photonics K.K.

Global Infrared and Thermal Imaging Systems Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Security and Surveillance

Healthcare

Industrial Inspections

Automotive

Military and Defense

By Type:

Thermal Cameras

Thermal Scopes

Thermal Sensors

Thermal Modules

By Technology:

Uncooled Thermal Imaging

Cooled Thermal Imaging

Near-Infrared Imaging

By End Use:

Commercial

Residential

Government

By Region:

## North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

Rest of Europe

## Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

## Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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