

Global Thermal Imaging Components Market Growth 2026-2032

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Abstracts

The global Thermal Imaging Components market size is predicted to grow from US\$ 6950 million in 2025 to US\$ 12684 million in 2032; it is expected to grow at a CAGR of 8.9% from 2026 to 2032.

Thermal imaging components refer to the core hardware elements used in infrared imaging systems to detect and convert thermal radiation into electronic signals for visual representation. These components typically include infrared detectors (such as uncooled microbolometers and cooled infrared sensors), infrared lenses, readout integrated circuits (ROIC), signal processing modules, and calibration units. They are widely integrated into security surveillance systems, automotive night vision systems, industrial inspection tools, firefighting equipment, medical diagnostic devices, and unmanned aerial systems. From a value chain perspective, upstream includes semiconductor wafers, infrared-sensitive materials (such as vanadium oxide and amorphous silicon), germanium optics, electronic substrates, and precision packaging materials; midstream focuses on sensor fabrication, wafer-level packaging, optical assembly, calibration, and module integration; downstream demand comes from system integrators, defense contractors, automotive OEMs, industrial equipment manufacturers, and consumer electronics brands. In 2025, the average selling price of thermal imaging components is approximately US\$96.00 per unit, with global sales volume reaching around 74 million units. The industry maintains a gross margin of 35%–60%, supported by technological barriers, material costs, and expanding cross-industry adoption.

United States market for Thermal Imaging Components is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thermal Imaging Components is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thermal Imaging Components is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thermal Imaging Components players cover Teledyne FLIR, L3Harris Technologies, Leonardo DRS, Hensoldt, BAE Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Thermal Imaging Components Industry Forecast" looks at past sales and reviews total world Thermal Imaging Components sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermal Imaging Components sales for 2026 through 2032. With Thermal Imaging Components sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermal Imaging Components industry.

This Insight Report provides a comprehensive analysis of the global Thermal Imaging Components landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermal Imaging Components portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermal Imaging Components market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermal Imaging Components and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermal Imaging Components.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermal Imaging Components market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Uncooled Microbolometer

Cooled Infrared Detector

Segmentation by Wavelength:

Short-Wave IR (SWIR)

Mid-Wave IR (MWIR)

Long-Wave IR (LWIR)

Segmentation by Resolution:

160x120

320x240

640x480

1024x768

Segmentation by Application:

Security & Surveillance

Automotive

Industrial Inspection

Defense

Consumer Electronics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Teledyne FLIR

L3Harris Technologies

Leonardo DRS

Hensoldt

BAE Systems

Hamamatsu Photonics

Seek Thermal

Raytron Technology

Guide Infrared

IRay Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermal Imaging Components market?

What factors are driving Thermal Imaging Components market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Thermal Imaging Components market opportunities vary by end market size?
How does Thermal Imaging Components break out by Type, by Application?

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