

Global Microbolometer Infrared Detector Market Growth 2025-2031

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Abstracts

The global Microbolometer Infrared Detector market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A microbolometer infrared detector is a specific type of bolometer used as a detector in a thermal camera. A bolometer is a device that measures the incident infrared radiation by turning it into heat and then measuring the change in some physical property, such as electrical resistance. A microbolometer consists of an absorber material that heats up when exposed to infrared radiation, and a read-out integrated circuit (ROIC) that measures the change in resistance of the absorber. The resistance change is then processed into temperatures that can be used to create an image 1. Microbolometers can operate without cryogenic cooling and cover wavelengths from 8 to 14 micrometers.

The industry trend of microbolometer infrared detectors is driven by the increasing demand for low-cost, high-performance, and uncooled thermal imaging devices for various applications, such as security, industrial, automotive, and medical. The market is expected to grow at a compound annual growth rate (CAGR) of 5.5% during the forecast period, from 2021 to 2028.

Some of the key factors that influence the industry trend are:

The development of complementary metal oxide semiconductor (CMOS) compatible

microbolometer technology, which reduces the fabrication cost and complexity by integrating the read-out integrated circuit (ROIC) and the micro-electro-mechanical system (MEMS) process.

The innovation of wafer-level packaging (WLP) technology, which enables the miniaturization and mass production of microbolometer devices by eliminating the need for wire bonding and vacuum sealing.

The improvement of pixel structure, absorber material, and ROIC design, which enhances the performance parameters of microbolometer detectors, such as resolution, sensitivity, response time, noise equivalent temperature difference (NETD), and power consumption.

The expansion of application fields and customer segments, which creates new opportunities and challenges for microbolometer infrared detector manufacturers and suppliers.

LP Information, Inc. (LPI) ' newest research report, the "Microbolometer Infrared Detector Industry Forecast" looks at past sales and reviews total world Microbolometer Infrared Detector sales in 2024, providing a comprehensive analysis by region and market sector of projected Microbolometer Infrared Detector sales for 2025 through 2031. With Microbolometer Infrared Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microbolometer Infrared Detector industry.

This Insight Report provides a comprehensive analysis of the global Microbolometer Infrared Detector 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 Microbolometer Infrared Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microbolometer Infrared Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microbolometer Infrared Detector 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 Microbolometer Infrared

Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of Microbolometer Infrared Detector market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vanadium Oxide (VOx)

Amorphous Silicon (A-Si)

Other

Segmentation by Application:

Aerospace & Defense

Automotive

Video Surveillance

Thermography

Other

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.

FLIR Systems

Sofradir (ULIS)

Leonardo DRS

BAE Systems

Raytheon

L-3

NEC

SCD

Zhejiang Dali

Yantai Raytron

North GuangWei

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microbolometer Infrared Detector market?

What factors are driving Microbolometer Infrared Detector market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microbolometer Infrared Detector market opportunities vary by end market size?

How does Microbolometer Infrared Detector break out by Type, by Application?

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