

Global Microbolometer Market Growth 2026-2032

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Abstracts

The global Microbolometer market size is predicted to grow from US\$ 1877 million in 2025 to US\$ 4303 million in 2032; it is expected to grow at a CAGR of 12.6% from 2026 to 2032.

Microbolometer is Microbolometer IR Detector (MIRD) that change in resistance, which mainly use the technology of VOx and a-Si; For Microbolometer IR Detector, the market usually calculates it in format, one Pcs in this report means a piece of format. Detector also can be called sensor, esp. in Europe market, so when the report mentioned IR sensor, it also means IR detector. In 2025, the global production of microbolometers will reach 1,760,770 units, with an average price of approximately US\$1,090 per unit and a gross profit margin of approximately 46.87%.

Global Microbolometer key players include FLIR Systems, Sofradir (ULIS), Leonardo DRS, etc. Global top three manufacturers hold a share about 75%. North America is the largest market, with a share about 50%, followed by Europe and China, both have a share about 30 percent. In terms of product, Vanadium Oxide (VOx) is the largest segment, with a share about 80%. And in terms of application, the largest application is Aerospace & Defense, followed by Thermography. As the core of uncooled infrared detection technology, the microbolometer has formed a broad and deep application ecosystem in fields such as thermal imaging, night vision, surveillance, automotive driver assistance, and industrial inspection. With the development of intelligent manufacturing, AI image processing, and sensor integration technologies, the microbolometer market is showing a steady growth trend and is extending from traditional security and industry to emerging high-growth fields such as consumer electronics and automotive thermal imaging. Cost optimization, resolution improvement, and intelligent integration will be key directions for future market competition.

LP Information, Inc. (LPI) ' newest research report, the ?Microbolometer Industry

Forecast? looks at past sales and reviews total world Microbolometer sales in 2025, providing a comprehensive analysis by region and market sector of projected Microbolometer sales for 2026 through 2032. With Microbolometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microbolometer industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Microbolometer 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 Cooling Technology:

Uncooled

Cooling

Segmentation by Channel:

Direct Selling

Distribution

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.

Teledyne FLIR

Lynred SAS

Leonardo DRS

BAE Systems

Raytheon

L3Harris Technologies

NEC

SCD

Zhejiang Dali

Yantai Raytron

North GuangWei

Workswell s.r.o.

Key Questions Addressed in this Report

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

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

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

How do Microbolometer market opportunities vary by end market size?

How does Microbolometer break out by Type, by Application?

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