

Global Microbolometer Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Microbolometer market size will reach 1,655.40 Million USD in 2025 and is projected to reach 3,719.45 Million USD by 2032, with a CAGR of 12.26% (2025-2032). Notably, the China Microbolometer market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A microbolometer is a type of thermal sensor used to detect and measure infrared radiation. It is commonly found in devices such as thermal imaging cameras, night vision systems, and temperature sensors. The microbolometer operates by detecting changes in temperature caused by incident infrared radiation. It consists of an array of tiny pixels, often made from materials like vanadium oxide or amorphous silicon, that absorb infrared radiation and undergo a change in resistance. This resistance change is then converted into an electrical signal, which is processed to create an image or temperature reading. Microbolometers are widely used for diverse applications, including surveillance, firefighting, industrial inspection, medical imaging, and environmental monitoring. They offer the advantage of being sensitive to a wide range of infrared wavelengths and can operate at room temperature, making them cost-effective and practical for various thermal sensing and imaging applications.

The major global manufacturers of Microbolometer include FLIR Systems, Sofradir (ULIS), Leonardo DRS, BAE Systems, Raytheon, L-3, SCD, NEC, Zhejiang Dali, Yantai

Raytron, North GuangWei, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Microbolometer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Microbolometer market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Microbolometer market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Microbolometer industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Microbolometer Include:

FLIR Systems

Sofradir (ULIS)

Leonardo DRS

BAE Systems

Raytheon

L-3

SCD

NEC

Zhejiang Dali

Yantai Raytron

North GuangWei

Microbolometer Product Segment Include:

Vanadium Oxide (VOx)

Amorphous Silicon (a-Si)

Others

Microbolometer Product Application Include:

Aerospace & Defense

Automotive

Video Surveillance

Thermography

Other

Chapter Scope

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