

Global Microbolometer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microbolometer market size is expected to reach \$ 4352 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Microbolometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microbolometer and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Microbolometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microbolometer total production and demand, 2021-2032, (Units)

Global Microbolometer total production value, 2021-2032, (USD Million)

Global Microbolometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Microbolometer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Microbolometer domestic production, consumption, key domestic manufacturers and share

Global Microbolometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Microbolometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Microbolometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Microbolometer market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR, Lynred SAS, Leonardo DRS, BAE Systems, Raytheon, L3Harris Technologies, NEC, SCD, Zhejiang Dali, Yantai Raytron, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Microbolometer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Microbolometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microbolometer Market, Segmentation by Type:

Vanadium Oxide (VO_x)

Amorphous Silicon (a-Si)

Other

Global Microbolometer Market, Segmentation by Cooling Technology:

Uncooled

Cooling

Global Microbolometer Market, Segmentation by Channel:

Direct Selling

Distribution

Global Microbolometer Market, Segmentation by Application:

Aerospace & Defense

Automotive

Video Surveillance

Thermography

Other

Companies Profiled:

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 Answered:

1. How big is the global Microbolometer market?
2. What is the demand of the global Microbolometer market?
3. What is the year over year growth of the global Microbolometer market?
4. What is the production and production value of the global Microbolometer market?
5. Who are the key producers in the global Microbolometer market?
6. What are the growth factors driving the market demand?

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