

Global Uncooled Infrared Microbolometer Market Growth 2026-2032

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Abstracts

The global Uncooled Infrared 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.

An uncooled infrared microbolometer is a sensor used for thermal imaging and infrared radiation detection. It absorbs infrared radiation (thermal radiation), causing a change in the temperature of the sensing material, and converts this temperature change into an electrical signal. Unlike traditional infrared detectors that require cooling, uncooled microbolometers do not require a cooling system, thus offering advantages such as simple structure, low cost, small size, and fast response. In 2025, global production of uncooled infrared microbolometers reached 1760.77 thousand units, with an average price of approximately US\$1090 per unit and a gross profit margin of approximately 46.87%.

Uncooled infrared microbolometers have established 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 expanding from traditional security and industrial applications to emerging high-growth areas 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 "Uncooled Infrared Microbolometer Industry Forecast" looks at past sales and reviews total world Uncooled

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Uncooled Infrared 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 Detection Technology:

Thermopile

MEMS

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 Uncooled Infrared Microbolometer market?

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

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

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

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

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