

Global Uncooled Infrared Microbolometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Uncooled Infrared Microbolometer market size was valued at US\$ 1975 million in 2025 and is forecast to a readjusted size of US\$ 4352 million by 2032 with a CAGR of 11.8% during review period.

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.

This report is a detailed and comprehensive analysis for global Uncooled Infrared Microbolometer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Uncooled Infrared Microbolometer market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Microbolometer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Microbolometer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Microbolometer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Uncooled Infrared Microbolometer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Uncooled Infrared Microbolometer market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Uncooled Infrared Microbolometer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vanadium Oxide (VOx)

Amorphous Silicon (A-Si)

Other

Market segment by Detection Technology

Thermopile

MEMS

Market segment by Channel

Direct Selling

Distribution

Market segment by Application

Aerospace & Defense

Automotive

Video Surveillance

Thermography

Other

Major players covered

Teledyne FLIR

Lynred SAS

Leonardo DRS

BAE Systems

Raytheon

L3Harris Technologies

NEC

SCD

Zhejiang Dali

Yantai Raytron

North GuangWei

Workswell s.r.o.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Uncooled Infrared Microbolometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Uncooled Infrared Microbolometer, with price, sales quantity, revenue, and global market share of Uncooled Infrared Microbolometer from 2021 to 2026.

Chapter 3, the Uncooled Infrared Microbolometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Uncooled Infrared Microbolometer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Uncooled Infrared Microbolometer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Uncooled Infrared Microbolometer.

Chapter 14 and 15, to describe Uncooled Infrared Microbolometer sales channel, distributors, customers, research findings and conclusion.

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