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Global MEMS 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 MEMS Microbolometer market size was valued at US$ 1080 million in 2025 and is forecast to a readjusted size of US$ 2346 million by 2032 with a CAGR of 11.9% during review period.

MEMS Microbolometer is an infrared resistive thermal sensor manufactured based on microelectromechanical system (MEMS) technology. It is built on a silicon signal readout integrated circuit (ROIC) and is based on a thermal sensor prepared by micromachining technology. MEMS microbolometers usually include a microbridge structure, which is composed of multiple layers of materials, including an absorption layer for absorbing infrared radiation, a thermistor layer that converts temperature changes into voltage (or current) changes, and bridge arms and piers that serve as support and electrical connections. MEMS microbolometers have high resolution and high sensitivity, and are widely used in military and civilian fields such as fire rescue, large-area temperature measurement, and drone payloads.

This report is a detailed and comprehensive analysis for global MEMS 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:

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

Global MEMS 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 MEMS 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 MEMS 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 MEMS 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 MEMS 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 Lynred, Raytheon, L3Harris, NEC, SCD, Teledyne FLIR, BAE Systems, Leonardo DRS, Optris, Zhejiang Dali Technology, etc.

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

Market Segmentation

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MEMS 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

Pixel Size 17?m

Pixel Size 12?m

Pixel Size 10?m

Others

Market segment by Application

Military

Civilian

Major players covered

Lynred

Raytheon

L3Harris

NEC

SCD

Teledyne FLIR

BAE Systems

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Leonardo DRS

Optris

Zhejiang Dali Technology

Raytron Technology

Hangzhou Hikmicro Sensing Technology

Wuhan Guide Infrared

Beijing Fujiy Rui Optoelectronics Technology

IRay Technology

Hangzhou Zilai Measurement and Control Technology

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 MEMS Microbolometer product scope, market overview, market

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estimation caveats and base year.

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

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

Chapter 4, the MEMS 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 MEMS 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 MEMS Microbolometer.

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

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