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Global MEMS Microbolometer Market Growth 2026-2032

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Abstracts

The global MEMS Microbolometer market size is predicted to grow from US$ 1027 million in 2025 to US$ 2320 million in 2032; it is expected to grow at a CAGR of 12.6% from 2026 to 2032.

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.

United States market for MEMS Microbolometer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for MEMS Microbolometer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for MEMS Microbolometer is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key MEMS Microbolometer players cover Lynred, Raytheon, L3Harris, NEC, SCD, etc. In terms of revenue, the global two largest companies occupied for a share

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nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “MEMS Microbolometer Industry Forecast” looks at past sales and reviews total world MEMS Microbolometer sales in 2025, providing a comprehensive analysis by region and market sector of projected MEMS Microbolometer sales for 2026 through 2032. With MEMS Microbolometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world MEMS Microbolometer industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of MEMS Microbolometer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pixel Size 17?m

Pixel Size 12?m

Pixel Size 10?m

Others

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Segmentation by Application:

- Military
- Civilian

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

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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.

Lynred

Raytheon

L3Harris

NEC

SCD

Teledyne FLIR

BAE Systems

Leonardo DRS

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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

Key Questions Addressed in this Report

What is the 10-year outlook for the global MEMS Microbolometer market?

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

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

How do MEMS Microbolometer market opportunities vary by end market size?

How does MEMS Microbolometer break out by Type, by Application?

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