

Global Emission Microscopy (EMMI) Market Growth 2026-2032

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Abstracts

The global Emission Microscopy (EMMI) market size is predicted to grow from US\$ 167 million in 2025 to US\$ 239 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

The Electron Microscope (EMMI) is a highly sensitive optical detection device for semiconductor failure analysis. It detects weak self-luminous signals generated by defects such as leakage, breakdown, and ESD damage during chip operation. It utilizes a highly sensitive CCD or InGaAs infrared camera to capture visible or near-infrared radiation emitted by a device in an extremely low-noise environment. Through optical amplification and image processing, it locates and qualitatively analyzes defects.

In the upstream process, key components include high-sensitivity detectors (such as InGaAs, Si-CCD, or sCMOS sensors), high-precision optical lenses and filter systems, a stable darkroom structure, a precision motion platform, and image acquisition and control software. The detectors and optical modules are the core of the technology, and their performance directly determines the EMMI's detection limit for weak light signals and image resolution.

Global sales in 2024 are expected to be approximately 180 units, with prices varying significantly depending on configuration, brand, and procurement channel, ranging from approximately US\$400,000 to US\$1.3 million per unit. The industry's gross profit margin is expected to be between 30% and 50%.

The Emission Microscopy (EMMI) industry is at a critical stage in semiconductor failure analysis and the upgrade of high-end inspection equipment. As chip manufacturing processes evolve to 7nm, 3nm, and even more advanced nodes, traditional electrical

and infrared inspection methods are unable to meet the defect localization requirements of highly integrated, high-power-density chips. EMMI, with its non-contact, highly sensitive, and visual low-light emission detection capabilities, is rapidly expanding its application in integrated circuit (IC) manufacturing, packaging and testing, and power devices. Globally, the industry is shifting from a high-end equipment landscape dominated by US and Japanese companies.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Emission Microscopy (EMMI) 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 Emission Microscopy (EMMI).

This report presents a comprehensive overview, market shares, and growth opportunities of Emission Microscopy (EMMI) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

InGaAs Probe

CCD Probe

Segmentation by Wavelength:

350?1100 nm

900?1700 nm

Segmentation by Configuration:

Standard

Integrated

Segmentation by Application:

LED Failure Analysis

EL/PL Image Acquisition

Semiconductor Failure Analysis

Others

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.

Hamamatsu

Thermo Fisher Scientific

Quantum Focus Instruments

SEMICAPS

IRLabs

Luxet Infrared

Key Questions Addressed in this Report

What is the 10-year outlook for the global Emission Microscopy (EMMI) market?

What factors are driving Emission Microscopy (EMMI) market growth, globally and by region?

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

How do Emission Microscopy (EMMI) market opportunities vary by end market size?

How does Emission Microscopy (EMMI) break out by Type, by Application?

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