

Global Emission Microscopy (EMMI) 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 Emission Microscopy (EMMI) market size was valued at US\$ 175 million in 2025 and is forecast to a readjusted size of US\$ 247 million by 2032 with a CAGR of 5.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Emission Microscopy (EMMI) 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 Emission Microscopy (EMMI) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

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

Global Emission Microscopy (EMMI) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Emission Microscopy (EMMI)
- 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 Emission Microscopy (EMMI) 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 Hamamatsu, Thermo Fisher Scientific, Quantum Focus Instruments, SEMICAPS, IRLabs, Luxet Infrared, etc.

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

Market Segmentation

Emission Microscopy (EMMI) 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

InGaAs Probe

CCD Probe

Market segment by Wavelength

350–1100 nm

900–1700 nm

Market segment by Configuration

Standard

Integrated

Market segment by Application

LED Failure Analysis

EL/PL Image Acquisition

Semiconductor Failure Analysis

Others

Major players covered

Hamamatsu

Thermo Fisher Scientific

Quantum Focus Instruments

SEMICAPS

IRLabs

Luxet Infrared

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 Emission Microscopy (EMMI) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Emission Microscopy (EMMI), with price,

sales quantity, revenue, and global market share of Emission Microscopy (EMMI) from 2021 to 2026.

Chapter 3, the Emission Microscopy (EMMI) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Emission Microscopy (EMMI) 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 Emission Microscopy (EMMI) 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 Emission Microscopy (EMMI).

Chapter 14 and 15, to describe Emission Microscopy (EMMI) sales channel, distributors, customers, research findings and conclusion.

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