

Global Fluorescence Lifetime Imaging Microscopy Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Fluorescence Lifetime Imaging Microscopy market size was valued at US\$ 217 million in 2024 and is forecast to a readjusted size of USD 316 million by 2031 with a CAGR of 5.6% during review period.

Fluorescence-lifetime imaging microscopy or FLIM is an imaging technique for producing an image based on the differences in the exponential decay rate of the fluorescence from a fluorescent sample. It can be used as an imaging technique in confocal microscopy, two-photon excitation microscopy, and multiphoton tomography.

The lifetime of the fluorophore signal, rather than its intensity, is used to create the image in FLIM. This has the advantage of minimizing the effect of photon scattering in thick layers of sample.

In the report, the information about the fluorescence-lifetime imaging microscopy is the new microscopy with FLIM software; the microscopy which updates software system is not included in the report.

Market competition is intense. Leica, Olympus, Zeiss and Becker & Hickl, etc, are the leaders of the industry, and they hold key technologies and patents, with high-end customers; have been formed in the monopoly position in the industry. They totally got 42% market shares,

North America is the largest consumption place, with a consumption market share nearly 35%. Following North America, Europe is the second largest consumption place

with the consumption market share of 33%.

Europe region is the largest supplier of fluorescence lifetime imaging microscopy, with a production market share nearly 40%. Japan is the second largest supplier of fluorescence lifetime imaging microscopy, enjoying production market share nearly 25%.

The classification of fluorescence lifetime imaging microscopy includes time-domain type, frequency-domain type and others type; and the proportion of time-domain type is about 52%.

Fluorescence lifetime imaging microscopy is widely used in biology & medical, academic institutes, chemical industry and other field. The most proportion of fluorescence lifetime imaging microscopy is biology & medical, and the consumption proportion is about 36%.

This report is a detailed and comprehensive analysis for global Fluorescence Lifetime Imaging Microscopy 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 Fluorescence Lifetime Imaging Microscopy market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Fluorescence Lifetime Imaging Microscopy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Fluorescence Lifetime Imaging Microscopy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Fluorescence Lifetime Imaging Microscopy market shares of main players,

shipments in revenue (\$ Million), sales quantity (Units), and ASP (K USD/Unit),
2020-2025

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 Fluorescence Lifetime Imaging Microscopy

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 Fluorescence Lifetime Imaging Microscopy 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 Leica, Olympus, Zeiss, Becker & Hickl, HORIBA, PicoQuant, Bruker, Nikon, Lambert, Jenlab, etc.

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

Market Segmentation

Fluorescence Lifetime Imaging Microscopy market is split by Type and by Application. For the period 2020-2031, 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

Time-Domain

Frequency-Domain

Others

Market segment by Application

Biology & Medical

Academic Institutes

Chemical Industry

Others

Major players covered

Leica

Olympus

Zeiss

Becker & Hickl

HORIBA

PicoQuant

Bruker

Nikon

Lambert

Jenlab

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 Fluorescence Lifetime Imaging Microscopy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fluorescence Lifetime Imaging Microscopy, with price, sales quantity, revenue, and global market share of Fluorescence Lifetime Imaging Microscopy from 2020 to 2025.

Chapter 3, the Fluorescence Lifetime Imaging Microscopy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fluorescence Lifetime Imaging Microscopy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Fluorescence Lifetime Imaging Microscopy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Fluorescence Lifetime Imaging Microscopy.

Chapter 14 and 15, to describe Fluorescence Lifetime Imaging Microscopy sales channel, distributors, customers, research findings and conclusion.

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