

Global Fluorescence Lifetime Imaging Microscopy Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Fluorescence Lifetime Imaging Microscopy market size was valued at USD 194.8 million in 2023 and is forecast to a readjusted size of USD 282.5 million by 2030 with a CAGR of 5.5% 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%.

The Global Info Research report includes an overview of the development of the Fluorescence Lifetime Imaging Microscopy industry chain, the market status of Biology & Medical (Time-Domain, Frequency-Domain), Academic Institutes (Time-Domain, Frequency-Domain), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fluorescence Lifetime Imaging Microscopy.

Regionally, the report analyzes the Fluorescence Lifetime Imaging Microscopy markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Fluorescence Lifetime Imaging Microscopy market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Fluorescence Lifetime Imaging Microscopy market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Fluorescence Lifetime Imaging Microscopy industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Time-Domain, Frequency-Domain).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Fluorescence Lifetime Imaging Microscopy market.

Regional Analysis: The report involves examining the Fluorescence Lifetime Imaging Microscopy market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Fluorescence Lifetime Imaging Microscopy market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fluorescence Lifetime Imaging Microscopy:

Company Analysis: Report covers individual Fluorescence Lifetime Imaging Microscopy manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Fluorescence Lifetime Imaging Microscopy This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Biology & Medical, Academic Institutes).

Technology Analysis: Report covers specific technologies relevant to Fluorescence Lifetime Imaging Microscopy. It assesses the current state, advancements, and potential future developments in Fluorescence Lifetime Imaging Microscopy areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Fluorescence Lifetime Imaging Microscopy market. This analysis helps understand market share, competitive

advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Fluorescence Lifetime Imaging Microscopy market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

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, revenue and global market share of Fluorescence Lifetime Imaging Microscopy from 2019 to 2024.

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 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Fluorescence Lifetime Imaging Microscopy market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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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