

# Fluorescence Lifetime Imaging Microscopy Industry Research Report 2024

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## Abstracts

### Summary

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.

According to APO Research, The global Fluorescence Lifetime Imaging Microscopy market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

North American market for Fluorescence Lifetime Imaging Microscopy is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Fluorescence Lifetime Imaging Microscopy is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Fluorescence Lifetime Imaging Microscopy is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Fluorescence Lifetime Imaging Microscopy include , etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Fluorescence Lifetime Imaging Microscopy, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Fluorescence Lifetime Imaging Microscopy.

The report will help the Fluorescence Lifetime Imaging Microscopy manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Fluorescence Lifetime Imaging Microscopy market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Fluorescence Lifetime Imaging Microscopy market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study

includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Leica

Olympus

Zeiss

Becker & Hickl

HORIBA

PicoQuant

Bruker

Nikon

Lambert

Jenlab

#### Fluorescence Lifetime Imaging Microscopy segment by Type

Time-Domain

Frequency-Domain

Others

#### Fluorescence Lifetime Imaging Microscopy segment by Application

Biology & Medical

Academic Institutes

Chemical Industry

Others

## Fluorescence Lifetime Imaging Microscopy Segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Fluorescence Lifetime

Imaging Microscopy market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Fluorescence Lifetime Imaging Microscopy and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Fluorescence Lifetime Imaging Microscopy.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Fluorescence Lifetime Imaging Microscopy manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Fluorescence Lifetime Imaging Microscopy by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Fluorescence Lifetime Imaging Microscopy in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Fluorescence Lifetime Imaging Microscopy by Type
  - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
  - 2.2.2 Time-Domain
  - 2.2.3 Frequency-Domain
  - 2.2.4 Others
- 2.3 Fluorescence Lifetime Imaging Microscopy by Application
  - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
  - 2.3.2 Biology & Medical
  - 2.3.3 Academic Institutes
  - 2.3.4 Chemical Industry
  - 2.3.5 Others
- 2.4 Global Market Growth Prospects
  - 2.4.1 Global Fluorescence Lifetime Imaging Microscopy Production Value Estimates and Forecasts (2019-2030)
  - 2.4.2 Global Fluorescence Lifetime Imaging Microscopy Production Capacity Estimates and Forecasts (2019-2030)
  - 2.4.3 Global Fluorescence Lifetime Imaging Microscopy Production Estimates and Forecasts (2019-2030)
  - 2.4.4 Global Fluorescence Lifetime Imaging Microscopy Market Average Price (2019-2030)

### 3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS



- 3.1 Global Fluorescence Lifetime Imaging Microscopy Production by Manufacturers (2019-2024)
- 3.2 Global Fluorescence Lifetime Imaging Microscopy Production Value by Manufacturers (2019-2024)
- 3.3 Global Fluorescence Lifetime Imaging Microscopy Average Price by Manufacturers (2019-2024)
- 3.4 Global Fluorescence Lifetime Imaging Microscopy Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Fluorescence Lifetime Imaging Microscopy Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Fluorescence Lifetime Imaging Microscopy Manufacturers, Product Type & Application
- 3.7 Global Fluorescence Lifetime Imaging Microscopy Manufacturers, Date of Enter into This Industry
- 3.8 Global Fluorescence Lifetime Imaging Microscopy Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

## **4 MANUFACTURERS PROFILED**

### 4.1 Leica

- 4.1.1 Leica Fluorescence Lifetime Imaging Microscopy Company Information
- 4.1.2 Leica Fluorescence Lifetime Imaging Microscopy Business Overview
- 4.1.3 Leica Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)
- 4.1.4 Leica Product Portfolio
- 4.1.5 Leica Recent Developments

### 4.2 Olympus

- 4.2.1 Olympus Fluorescence Lifetime Imaging Microscopy Company Information
- 4.2.2 Olympus Fluorescence Lifetime Imaging Microscopy Business Overview
- 4.2.3 Olympus Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)
- 4.2.4 Olympus Product Portfolio
- 4.2.5 Olympus Recent Developments

### 4.3 Zeiss

- 4.3.1 Zeiss Fluorescence Lifetime Imaging Microscopy Company Information
- 4.3.2 Zeiss Fluorescence Lifetime Imaging Microscopy Business Overview
- 4.3.3 Zeiss Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)
- 4.3.4 Zeiss Product Portfolio

#### 4.3.5 Zeiss Recent Developments

### 4.4 Becker & Hickl

#### 4.4.1 Becker & Hickl Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.4.2 Becker & Hickl Fluorescence Lifetime Imaging Microscopy Business Overview

#### 4.4.3 Becker & Hickl Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

#### 4.4.4 Becker & Hickl Product Portfolio

#### 4.4.5 Becker & Hickl Recent Developments

### 4.5 HORIBA

#### 4.5.1 HORIBA Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.5.2 HORIBA Fluorescence Lifetime Imaging Microscopy Business Overview

#### 4.5.3 HORIBA Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

#### 4.5.4 HORIBA Product Portfolio

#### 4.5.5 HORIBA Recent Developments

### 4.6 PicoQuant

#### 4.6.1 PicoQuant Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.6.2 PicoQuant Fluorescence Lifetime Imaging Microscopy Business Overview

#### 4.6.3 PicoQuant Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

#### 4.6.4 PicoQuant Product Portfolio

#### 4.6.5 PicoQuant Recent Developments

### 4.7 Bruker

#### 4.7.1 Bruker Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.7.2 Bruker Fluorescence Lifetime Imaging Microscopy Business Overview

#### 4.7.3 Bruker Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

#### 4.7.4 Bruker Product Portfolio

#### 4.7.5 Bruker Recent Developments

### 4.8 Nikon

#### 4.8.1 Nikon Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.8.2 Nikon Fluorescence Lifetime Imaging Microscopy Business Overview

#### 4.8.3 Nikon Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

#### 4.8.4 Nikon Product Portfolio

#### 4.8.5 Nikon Recent Developments

### 4.9 Lambert

#### 4.9.1 Lambert Fluorescence Lifetime Imaging Microscopy Company Information

#### 4.9.2 Lambert Fluorescence Lifetime Imaging Microscopy Business Overview

4.9.3 Lambert Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

4.9.4 Lambert Product Portfolio

4.9.5 Lambert Recent Developments

4.10 Jenlab

4.10.1 Jenlab Fluorescence Lifetime Imaging Microscopy Company Information

4.10.2 Jenlab Fluorescence Lifetime Imaging Microscopy Business Overview

4.10.3 Jenlab Fluorescence Lifetime Imaging Microscopy Production, Value and Gross Margin (2019-2024)

4.10.4 Jenlab Product Portfolio

4.10.5 Jenlab Recent Developments

## **5 GLOBAL FLUORESCENCE LIFETIME IMAGING MICROSCOPY PRODUCTION BY REGION**

5.1 Global Fluorescence Lifetime Imaging Microscopy Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.2 Global Fluorescence Lifetime Imaging Microscopy Production by Region: 2019-2030

5.2.1 Global Fluorescence Lifetime Imaging Microscopy Production by Region: 2019-2024

5.2.2 Global Fluorescence Lifetime Imaging Microscopy Production Forecast by Region (2025-2030)

5.3 Global Fluorescence Lifetime Imaging Microscopy Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.4 Global Fluorescence Lifetime Imaging Microscopy Production Value by Region: 2019-2030

5.4.1 Global Fluorescence Lifetime Imaging Microscopy Production Value by Region: 2019-2024

5.4.2 Global Fluorescence Lifetime Imaging Microscopy Production Value Forecast by Region (2025-2030)

5.5 Global Fluorescence Lifetime Imaging Microscopy Market Price Analysis by Region (2019-2024)

5.6 Global Fluorescence Lifetime Imaging Microscopy Production and Value, YOY Growth

5.6.1 North America Fluorescence Lifetime Imaging Microscopy Production Value Estimates and Forecasts (2019-2030)

5.6.2 Europe Fluorescence Lifetime Imaging Microscopy Production Value Estimates and Forecasts (2019-2030)

5.6.3 China Fluorescence Lifetime Imaging Microscopy Production Value Estimates

and Forecasts (2019-2030)

5.6.4 Japan Fluorescence Lifetime Imaging Microscopy Production Value Estimates and Forecasts (2019-2030)

## **6 GLOBAL FLUORESCENCE LIFETIME IMAGING MICROSCOPY CONSUMPTION BY REGION**

6.1 Global Fluorescence Lifetime Imaging Microscopy Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

6.2 Global Fluorescence Lifetime Imaging Microscopy Consumption by Region (2019-2030)

6.2.1 Global Fluorescence Lifetime Imaging Microscopy Consumption by Region: 2019-2030

6.2.2 Global Fluorescence Lifetime Imaging Microscopy Forecasted Consumption by Region (2025-2030)

6.3 North America

6.3.1 North America Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.3.2 North America Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2030)

6.3.3 U.S.

6.3.4 Canada

6.4 Europe

6.4.1 Europe Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.4.2 Europe Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2030)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.5.2 Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2030)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.6.2 Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2030)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

## **7 SEGMENT BY TYPE**

7.1 Global Fluorescence Lifetime Imaging Microscopy Production by Type (2019-2030)

7.1.1 Global Fluorescence Lifetime Imaging Microscopy Production by Type (2019-2030) & (Units)

7.1.2 Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Type (2019-2030)

7.2 Global Fluorescence Lifetime Imaging Microscopy Production Value by Type (2019-2030)

7.2.1 Global Fluorescence Lifetime Imaging Microscopy Production Value by Type (2019-2030) & (US\$ Million)

7.2.2 Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Type (2019-2030)

7.3 Global Fluorescence Lifetime Imaging Microscopy Price by Type (2019-2030)

## **8 SEGMENT BY APPLICATION**

8.1 Global Fluorescence Lifetime Imaging Microscopy Production by Application (2019-2030)

8.1.1 Global Fluorescence Lifetime Imaging Microscopy Production by Application (2019-2030) & (Units)

8.1.2 Global Fluorescence Lifetime Imaging Microscopy Production by Application (2019-2030) & (Units)

8.2 Global Fluorescence Lifetime Imaging Microscopy Production Value by Application

(2019-2030)

8.2.1 Global Fluorescence Lifetime Imaging Microscopy Production Value by Application (2019-2030) & (US\$ Million)

8.2.2 Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Application (2019-2030)

8.3 Global Fluorescence Lifetime Imaging Microscopy Price by Application (2019-2030)

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET**

9.1 Fluorescence Lifetime Imaging Microscopy Value Chain Analysis

9.1.1 Fluorescence Lifetime Imaging Microscopy Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Fluorescence Lifetime Imaging Microscopy Production Mode & Process

9.2 Fluorescence Lifetime Imaging Microscopy Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Fluorescence Lifetime Imaging Microscopy Distributors

9.2.3 Fluorescence Lifetime Imaging Microscopy Customers

## **10 GLOBAL FLUORESCENCE LIFETIME IMAGING MICROSCOPY ANALYZING MARKET DYNAMICS**

10.1 Fluorescence Lifetime Imaging Microscopy Industry Trends

10.2 Fluorescence Lifetime Imaging Microscopy Industry Drivers

10.3 Fluorescence Lifetime Imaging Microscopy Industry Opportunities and Challenges

10.4 Fluorescence Lifetime Imaging Microscopy Industry Restraints

## **11 REPORT CONCLUSION**

## **12 DISCLAIMER**



## List Of Tables

### LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)

Table 4. Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 5. Global Fluorescence Lifetime Imaging Microscopy Production by Manufacturers (Units) & (2019-2024)

Table 6. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Manufacturers

Table 7. Global Fluorescence Lifetime Imaging Microscopy Production Value by Manufacturers (US\$ Million) & (2019-2024)

Table 8. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Manufacturers (2019-2024)

Table 9. Global Fluorescence Lifetime Imaging Microscopy Average Price (K USD/Unit) of Key Manufacturers (2019-2024)

Table 10. Global Fluorescence Lifetime Imaging Microscopy Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 11. Global Fluorescence Lifetime Imaging Microscopy Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Fluorescence Lifetime Imaging Microscopy by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. Leica Fluorescence Lifetime Imaging Microscopy Company Information

Table 16. Leica Business Overview

Table 17. Leica Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 18. Leica Product Portfolio

Table 19. Leica Recent Developments

Table 20. Olympus Fluorescence Lifetime Imaging Microscopy Company Information

Table 21. Olympus Business Overview

Table 22. Olympus Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 23. Olympus Product Portfolio

Table 24. Olympus Recent Developments

Table 25. Zeiss Fluorescence Lifetime Imaging Microscopy Company Information

Table 26. Zeiss Business Overview

Table 27. Zeiss Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 28. Zeiss Product Portfolio

Table 29. Zeiss Recent Developments

Table 30. Becker & Hickl Fluorescence Lifetime Imaging Microscopy Company Information

Table 31. Becker & Hickl Business Overview

Table 32. Becker & Hickl Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 33. Becker & Hickl Product Portfolio

Table 34. Becker & Hickl Recent Developments

Table 35. HORIBA Fluorescence Lifetime Imaging Microscopy Company Information

Table 36. HORIBA Business Overview

Table 37. HORIBA Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 38. HORIBA Product Portfolio

Table 39. HORIBA Recent Developments

Table 40. PicoQuant Fluorescence Lifetime Imaging Microscopy Company Information

Table 41. PicoQuant Business Overview

Table 42. PicoQuant Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 43. PicoQuant Product Portfolio

Table 44. PicoQuant Recent Developments

Table 45. Bruker Fluorescence Lifetime Imaging Microscopy Company Information

Table 46. Bruker Business Overview

Table 47. Bruker Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 48. Bruker Product Portfolio

Table 49. Bruker Recent Developments

Table 50. Nikon Fluorescence Lifetime Imaging Microscopy Company Information

Table 51. Nikon Business Overview

Table 52. Nikon Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 53. Nikon Product Portfolio

Table 54. Nikon Recent Developments

Table 55. Lambert Fluorescence Lifetime Imaging Microscopy Company Information

Table 56. Lambert Business Overview



Table 57. Lambert Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 58. Lambert Product Portfolio

Table 59. Lambert Recent Developments

Table 60. Jenlab Fluorescence Lifetime Imaging Microscopy Company Information

Table 61. Jenlab Business Overview

Table 62. Jenlab Fluorescence Lifetime Imaging Microscopy Production (Units), Value (US\$ Million), Price (K USD/Unit) and Gross Margin (2019-2024)

Table 63. Jenlab Product Portfolio

Table 64. Jenlab Recent Developments

Table 65. Global Fluorescence Lifetime Imaging Microscopy Production Comparison by Region: 2019 VS 2023 VS 2030 (Units)

Table 66. Global Fluorescence Lifetime Imaging Microscopy Production by Region (2019-2024) & (Units)

Table 67. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Region (2019-2024)

Table 68. Global Fluorescence Lifetime Imaging Microscopy Production Forecast by Region (2025-2030) & (Units)

Table 69. Global Fluorescence Lifetime Imaging Microscopy Production Market Share Forecast by Region (2025-2030)

Table 70. Global Fluorescence Lifetime Imaging Microscopy Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 71. Global Fluorescence Lifetime Imaging Microscopy Production Value by Region (2019-2024) & (US\$ Million)

Table 72. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Region (2019-2024)

Table 73. Global Fluorescence Lifetime Imaging Microscopy Production Value Forecast by Region (2025-2030) & (US\$ Million)

Table 74. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share Forecast by Region (2025-2030)

Table 75. Global Fluorescence Lifetime Imaging Microscopy Market Average Price (K USD/Unit) by Region (2019-2024)

Table 76. Global Fluorescence Lifetime Imaging Microscopy Consumption Comparison by Region: 2019 VS 2023 VS 2030 (Units)

Table 77. Global Fluorescence Lifetime Imaging Microscopy Consumption by Region (2019-2024) & (Units)

Table 78. Global Fluorescence Lifetime Imaging Microscopy Consumption Market Share by Region (2019-2024)

Table 79. Global Fluorescence Lifetime Imaging Microscopy Forecasted Consumption

by Region (2025-2030) & (Units)

Table 80. Global Fluorescence Lifetime Imaging Microscopy Forecasted Consumption Market Share by Region (2025-2030)

Table 81. North America Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Units)

Table 82. North America Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2024) & (Units)

Table 83. North America Fluorescence Lifetime Imaging Microscopy Consumption by Country (2025-2030) & (Units)

Table 84. Europe Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Units)

Table 85. Europe Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2024) & (Units)

Table 86. Europe Fluorescence Lifetime Imaging Microscopy Consumption by Country (2025-2030) & (Units)

Table 87. Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Units)

Table 88. Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2024) & (Units)

Table 89. Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption by Country (2025-2030) & (Units)

Table 90. Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (Units)

Table 91. Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption by Country (2019-2024) & (Units)

Table 92. Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption by Country (2025-2030) & (Units)

Table 93. Global Fluorescence Lifetime Imaging Microscopy Production by Type (2019-2024) & (Units)

Table 94. Global Fluorescence Lifetime Imaging Microscopy Production by Type (2025-2030) & (Units)

Table 95. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Type (2019-2024)

Table 96. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Type (2025-2030)

Table 97. Global Fluorescence Lifetime Imaging Microscopy Production Value by Type (2019-2024) & (US\$ Million)

Table 98. Global Fluorescence Lifetime Imaging Microscopy Production Value by Type (2025-2030) & (US\$ Million)

Table 99. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Type (2019-2024)

Table 100. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Type (2025-2030)

Table 101. Global Fluorescence Lifetime Imaging Microscopy Price by Type (2019-2024) & (K USD/Unit)

Table 102. Global Fluorescence Lifetime Imaging Microscopy Price by Type (2025-2030) & (K USD/Unit)

Table 103. Global Fluorescence Lifetime Imaging Microscopy Production by Application (2019-2024) & (Units)

Table 104. Global Fluorescence Lifetime Imaging Microscopy Production by Application (2025-2030) & (Units)

Table 105. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Application (2019-2024)

Table 106. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Application (2025-2030)

Table 107. Global Fluorescence Lifetime Imaging Microscopy Production Value by Application (2019-2024) & (US\$ Million)

Table 108. Global Fluorescence Lifetime Imaging Microscopy Production Value by Application (2025-2030) & (US\$ Million)

Table 109. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Application (2019-2024)

Table 110. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Application (2025-2030)

Table 111. Global Fluorescence Lifetime Imaging Microscopy Price by Application (2019-2024) & (K USD/Unit)

Table 112. Global Fluorescence Lifetime Imaging Microscopy Price by Application (2025-2030) & (K USD/Unit)

Table 113. Key Raw Materials

Table 114. Raw Materials Key Suppliers

Table 115. Fluorescence Lifetime Imaging Microscopy Distributors List

Table 116. Fluorescence Lifetime Imaging Microscopy Customers List

Table 117. Fluorescence Lifetime Imaging Microscopy Industry Trends

Table 118. Fluorescence Lifetime Imaging Microscopy Industry Drivers

Table 119. Fluorescence Lifetime Imaging Microscopy Industry Restraints

Table 120. Authors List of This Report

## List Of Figures

### LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Fluorescence Lifetime Imaging Microscopy Product Picture
- Figure 5. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Figure 6. Time-Domain Product Picture
- Figure 7. Frequency-Domain Product Picture
- Figure 8. Others Product Picture
- Figure 9. Biology & Medical Product Picture
- Figure 10. Academic Institutes Product Picture
- Figure 11. Chemical Industry Product Picture
- Figure 12. Others Product Picture
- Figure 13. Global Fluorescence Lifetime Imaging Microscopy Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 14. Global Fluorescence Lifetime Imaging Microscopy Production Value (2019-2030) & (US\$ Million)
- Figure 15. Global Fluorescence Lifetime Imaging Microscopy Production Capacity (2019-2030) & (Units)
- Figure 16. Global Fluorescence Lifetime Imaging Microscopy Production (2019-2030) & (Units)
- Figure 17. Global Fluorescence Lifetime Imaging Microscopy Average Price (K USD/Unit) & (2019-2030)
- Figure 18. Global Fluorescence Lifetime Imaging Microscopy Key Manufacturers, Manufacturing Sites & Headquarters
- Figure 19. Global Fluorescence Lifetime Imaging Microscopy Manufacturers, Date of Enter into This Industry
- Figure 20. Global Top 5 and 10 Fluorescence Lifetime Imaging Microscopy Players Market Share by Production Value in 2023
- Figure 21. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 22. Global Fluorescence Lifetime Imaging Microscopy Production Comparison by Region: 2019 VS 2023 VS 2030 (Units)
- Figure 23. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Region: 2019 VS 2023 VS 2030
- Figure 24. Global Fluorescence Lifetime Imaging Microscopy Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 25. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Region: 2019 VS 2023 VS 2030

Figure 26. North America Fluorescence Lifetime Imaging Microscopy Production Value (US\$ Million) Growth Rate (2019-2030)

Figure 27. Europe Fluorescence Lifetime Imaging Microscopy Production Value (US\$ Million) Growth Rate (2019-2030)

Figure 28. China Fluorescence Lifetime Imaging Microscopy Production Value (US\$ Million) Growth Rate (2019-2030)

Figure 29. Japan Fluorescence Lifetime Imaging Microscopy Production Value (US\$ Million) Growth Rate (2019-2030)

Figure 30. Global Fluorescence Lifetime Imaging Microscopy Consumption Comparison by Region: 2019 VS 2023 VS 2030 (Units)

Figure 31. Global Fluorescence Lifetime Imaging Microscopy Consumption Market Share by Region: 2019 VS 2023 VS 2030

Figure 32. North America Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 33. North America Fluorescence Lifetime Imaging Microscopy Consumption Market Share by Country (2019-2030)

Figure 34. United States Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 35. Canada Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 36. Europe Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 37. Europe Fluorescence Lifetime Imaging Microscopy Consumption Market Share by Country (2019-2030)

Figure 38. Germany Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 39. France Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 40. U.K. Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 41. Italy Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 42. Netherlands Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 43. Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 44. Asia Pacific Fluorescence Lifetime Imaging Microscopy Consumption Market



## Share by Country (2019-2030)

Figure 45. China Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 46. Japan Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 47. South Korea Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 48. China Taiwan Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 49. Southeast Asia Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 50. India Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 51. Australia Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 52. Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 53. Latin America, Middle East & Africa Fluorescence Lifetime Imaging Microscopy Consumption Market Share by Country (2019-2030)

Figure 54. Mexico Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 55. Brazil Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 56. Turkey Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 57. GCC Countries Fluorescence Lifetime Imaging Microscopy Consumption and Growth Rate (2019-2030) & (Units)

Figure 58. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Type (2019-2030)

Figure 59. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Type (2019-2030)

Figure 60. Global Fluorescence Lifetime Imaging Microscopy Price (K USD/Unit) by Type (2019-2030)

Figure 61. Global Fluorescence Lifetime Imaging Microscopy Production Market Share by Application (2019-2030)

Figure 62. Global Fluorescence Lifetime Imaging Microscopy Production Value Market Share by Application (2019-2030)

Figure 63. Global Fluorescence Lifetime Imaging Microscopy Price (K USD/Unit) by Application (2019-2030)

Figure 64. Fluorescence Lifetime Imaging Microscopy Value Chain

Figure 65. Fluorescence Lifetime Imaging Microscopy Production Mode & Process

Figure 66. Direct Comparison with Distribution Share

Figure 67. Distributors Profiles

Figure 68. Fluorescence Lifetime Imaging Microscopy Industry Opportunities and Challenges

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