

Global Fluorescence Microscopy Market

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Abstracts

REPORT SCOPE:

For the purpose of this report, fluorescence microscopy or microscope is defined as an optical microscope that uses fluorescence and phosphorescence instead of, or in addition to, reflection and absorption, to study properties of organic or inorganic substances. A fluorescence microscope is based on the phenomenon that certain materials emit energy which is detectable as visible light when irradiated with the light of a specific wavelength. The absorption and subsequent re-radiation of light by organic and inorganic specimens is mainly the result of either fluorescence or phosphorescence. A conventional microscope uses visible light (400-700 nanometers) to illuminate and produce a magnified image of a sample. A fluorescence microscope uses a much more intense light source that excites a fluorescent species in a sample of interest. This fluorescent species in turn emits a lower energy light of a longer wavelength that produces the magnified image, instead of the original light source.

The scope of this report covers the global fluorescence microscopy market for various end-user application industries. The market is broken down by illumination methods, types of fluorescence microscopes, technology, region, and applications (end users). Revenue forecasts from 2018 to 2023 are given for each fluorescence microscopy segment, and regional market with estimated values derived from the manufacturers' total revenues.

The report also includes a discussion of the major players across each regional market. Further, it explains the major drivers, regional dynamics of the global fluorescence microscopy market and current trends within the industry.

The report concludes with a special focus on the vendor landscape and includes detailed profiles of the major vendors.

Detailed Inclusions

For the purpose of this report, fluorescence microscopy or microscope is defined as an optical microscope that uses fluorescence and phosphorescence instead of, or in addition to reflection and absorption, to study properties of organic or inorganic substances. A fluorescence microscope uses a high intensity light source which excites a fluorescent species in a sample of interest. This fluorescent species in turn emits a lower energy light of a longer wavelength that produces the magnified image instead of the original light source.

The report covers hardware revenue of companies active in the global fluorescence microscopy market. The report covers companies that provide specific parts of fluorescence microscopy such as cameras for fluorescence microscopy.

However, companies (and revenue from those companies) that do not categorically sell hardware and tools for the fluorescence microscopy are not part of this report.

The report also covers service revenue of active vendors in the fluorescence microscopy space. However, the report excludes standalone service providers and revenue from those providers.

The report also covers software revenue, provided the software is a part of the overall package. The dedicated Leica Application Suite (LAS) X software platform provided by Leica is an example.

Standalone software providers are out of scope of this report.

Revenue forecasts from 2018 to 2023 are given for each fluorescence microscopy segment. Regional markets with estimated values are derived from manufacturers' total revenues which includes hardware, services and sometimes software.

The report begins with an introduction to the evolving global fluorescence microscopy market and the various factors which impact the market. The report then identifies the following%li%

Primary forces with a direct impact on the market.

Secondary forces that have an indirect impact.

Key challenges that may hinder the growth of this market.

Key trends visible in the market.

Leading segments within the market.

Patent analysis of the key players active in the market.

REPORT INCLUDES:

75 data tables

An overview of the global market for fluorescence microscopy

Analyses of global market trends, with data from 2017, 2018, and projections of compound annual growth rates (CAGRs) through 2023

A look into background, history, development and evolution of microscopy, optical microscopy and fluorescence microscopy

Detailed description about technologies, new developments and future of the fluorescence microscopy

Comprehensive analyses of the major players of the industry, including Bruker Corp., Doric Lenses Inc., Edmund Optics Inc., Horiba Ltd., Thermo Fisher Scientific and Zeiss

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Microscopy and Its Evolution
Fluorescence Microscopy and Its Evolution
Types of Fluorescence Microscopes
Recent Advancements in Fluorescence Microscopy
Light-Sheet Based Fluorescence Microscopy (LSFM)
Bleaching-Assisted Multichannel Microscopy (BAMM)
Three Views of a Sample
Plasmonics Enhanced Smartphone Fluorescence Microscopy
Use of Artificial Intelligence
Application in Various Industries
Life Sciences
Diagnostics
Mineralogical and Geology
Industrial
Education
Global Forecast of the Fluorescence Microscopy Market

CHAPTER 4 GLOBAL FLUORESCENCE MICROSCOPY MARKET BY TYPE

Inverted Fluorescence Microscopy
Upright Fluorescence Microscopy

CHAPTER 5 MARKET BREAKDOWN BY ILLUMINATION METHOD

Episcopic/Reflected Fluorescence Microscopy
Diascopic/Transmitted Fluorescence Microscopy

CHAPTER 6 MARKET BREAKDOWN BY TECHNOLOGY

Epifluorescence Microscopy
Multiphoton Microscopy
Total Internal Reflection Fluorescence (TIRF) Microscopy
Confocal Microscopy
Super Resolution (SR) Fluorescence Microscopy

CHAPTER 7 MARKET BREAKDOWN BY COMPONENT

Equipment
Software and Consumables

CHAPTER 8 MARKET BREAKDOWN BY END USE

Biology
Medical Sciences
Hospitals
Material Sciences
Others

CHAPTER 9 MARKET BREAKDOWN BY REGION

North America
United States
Canada
Mexico
Europe
Germany
U.K.
France
Italy
Asia-Pacific (APAC)

China
Japan
India
South Korea
Australia
South America
Middle East and Africa (MEA)

CHAPTER 10 INDUSTRY STRUCTURE AND PATENT ANALYSIS

Market Drivers

Growing Miniaturization in the Semiconductor Industry
Strong Growing Life Sciences Research in the Field of Personalized Medicine
Growing Demand for Student Microscopes

Market Challenges

High Cost
Availability of Substitutes
Requirement of Highly Technical, Skilled People
Phototoxicity and Photobleaching

Key Market Trends

High-Throughput Imaging in Fluorescence Microscopy (Automated Fluorescence Microscopy)
Increasing Use of Fluorescence Microscopy in the Field of Nanotechnology
Product Innovations by Market Players
Advancement in Fluorophores

Patent Analysis

Five Forces Analysis of the Global Fluorescence Microscopy Market
Power of Suppliers
Power of Buyers
Competition Among Existing Players
Threat of New Entrants
Threat of Substitute

CHAPTER 11 COMPANY PROFILES

AMSCOPE
ANMO ELECTRONICS CORP.
BRUKER CORP.
CAIRN RESEARCH

CHONGQING COIC INDUSTRIAL CO. LTD.
DELMIC B.V.
DORIC LENSES INC.
EDMUND OPTICS INC.
ETALUMA INC.
EUROMEX MICROSCOPEN BV
HOLMARC OPTO-MECHATRONICS (P) LTD.
HORIBA LTD.
KEYENCE CORP.
LEICA MICROSYSTEMS GMBH
LOGOS BIOSYSTEMS INC.
MAGNUS ANALYTICS
MEIJI TECHNO
MOTIC
NEURESCENCE BIOLOGICAL OPTICAL IMAGING
NIKON CORP.
NINGBO YONGXIN OPTICS CO. LTD.
OLYMPUS CORP.
OPTIKA SRL
PICOQUANT
RADICAL SCIENTIFIC EQUIPMENTS PVT. LTD.
SHANGHAI OPTICS
SUNNY OPTICAL TECHNOLOGY (GROUP) CO. LTD.
THERMO FISHER SCIENTIFIC INC.
THORLABS INC.
TAUTEC LLC
ZEISS GROUP

List Of Tables

LIST OF TABLES

Summary Table: Global Market for Fluorescence Microscopy, by Component, Through 2023

Table 1: Evolution of Microscopy and Microscopes

Table 2: Global Market for Fluorescence Microscopy, by Component, Through 2023

Table 3: Global Market for Fluorescence Microscopy, by Type, Through 2023

Table 4: Global Market Shares of Fluorescence Microscopy, by Type, 2017

Table 5: Global Market Shares of Fluorescence Microscopy, by Type, 2018

Table 6: Global Market Shares of Fluorescence Microscopy, by Type, 2023

Table 7: Global Market for Inverted Fluorescence Microscopy, Through 2023

Table 8: Global Market for Upright Fluorescence Microscopy, Through 2023

Table 9: Global Market for Fluorescence Microscopy, by Illumination Method, Through 2023

Table 10: Global Market Shares of Fluorescence Microscopy, by Illumination Method, 2017

Table 11: Global Market Shares of Fluorescence Microscopy, by Illumination Method, 2018

Table 12: Global Market Shares of Fluorescence Microscopy, by Illumination Method, 2023

Table 13: Global Market for Episcopic/Reflected Fluorescence Microscopy, by Illumination Method, Through 2023

Table 14: Global Market for Diascopic/Transmitted Fluorescence Microscopy, by Illumination Method, Through 2023

Table 15: Global Market for Fluorescence Microscopy, by Technology, Through 2023

Table 16: Global Market Shares of Fluorescence Microscopy, by Technology, 2017

Table 17: Global Market Shares of Fluorescence Microscopy, by Technology, 2018

Table 18: Global Market Shares of Fluorescence Microscopy, by Technology, 2023

Table 19: Global Market for Epifluorescence Microscopy, by Technology, Through 2023

Table 20: Global Market for Multiphoton Microscopy, by Technology, Through 2023

Table 21: Global Market for TIRF Microscopy, by Technology, Through 2023

Table 22: Global Market for Confocal Microscopy, by Technology, Through 2023

Table 23: Global Market for Super Resolution Fluorescence Microscopy, by Technology, Through 2023

Table 24: Global Market for Fluorescence Microscopy, by Component, Through 2023

Table 25: Global Market Shares of Fluorescence Microscopy, by Component, 2017

Table 26: Global Market Shares of Fluorescence Microscopy, by Component, 2018

Table 27: Global Market Shares of Fluorescence Microscopy, by Component, 2023

Table 28: Global Market for Fluorescence Microscopy Equipment, by Component, Through 2023

Table 29: Global Market for Fluorescence Microscopy Software and Consumables, by Component, Through 2023

Table 30: Global Market for Fluorescence Microscopy, by End Use, Through 2023

Table 31: Global Market Shares of Fluorescence Microscopy, by End Use, 2017

Table 32: Global Market Shares of Fluorescence Microscopy, by End Use, 2018

Table 33: Global Market Shares of Fluorescence Microscopy, by End Use, 2023

Table 34: Global Market for Fluorescence Microscopy in Biological Research, by End Use, Through 2023

Table 35: Global Market for Fluorescence Microscopy in the Medical Sciences, by End Use, Through 2023

Table 36: Global Market for Fluorescence Microscopy in Hospitals, by End Use, Through 2023

Table 37: Global Market for Fluorescence Microscopy in the Material Sciences, by End Use, Through 2023

Table 38: Global Market for Fluorescence Microscopy in Other End Uses, Through 2023

Table 39: Global Market for Fluorescence Microscopy, by Region, Through 2023

Table 40: Global Market for Fluorescence Microscopy, by Region, 2017

Table 41: Global Market for Fluorescence Microscopy, by Region, 2018

Table 42: Global Market for Fluorescence Microscopy, by Region, 2023

Table 43: North American Market for Fluorescence Microscopy, by Component, Through 2023

Table 44: North American Market for Fluorescence Microscopy, by Illumination Method, Through 2023

Table 45: North American Market for Fluorescence Microscopy, by Type, Through 2023

Table 46: North American Market for Fluorescence Microscopy, by Technology, Through 2023

Table 47: North American Market for Fluorescence Microscopy, by End User, Through 2023

Table 48: North American Market for Fluorescence Microscopy, by Country, Through 2023

Table 49: U.S. Market for Fluorescence Microscopy, Through 2023

Table 50: Canadian Market for Fluorescence Microscopy, Through 2023

Table 51: Mexican Market for Fluorescence Microscopy, Through 2023

Table 52: European Market for Fluorescence Microscopy, by Component, Through 2023

Table 53: European Market for Fluorescence Microscopy, by Illumination Method,

Through 2023

Table 54: European Market for Fluorescence Microscopy, by Type, Through 2023

Table 55: European Market for Fluorescence Microscopy, by Technology, Through 2023

Table 56: European Market for Fluorescence Microscopy, by End User, Through 2023

Table 57: European Market for Fluorescence Microscopy, by Country, Through 2023

Table 58: German Market for Fluorescence Microscopy, Through 2023

Table 59: U.K. Market for Fluorescence Microscopy, Through 2023

Table 60: French Market for Fluorescence Microscopy, Through 2023

Table 61: Italian Market for Fluorescence Microscopy, Through 2023

Table 62: APAC Market for Fluorescence Microscopy, by Component, Through 2023

Table 63: APAC Market for Fluorescence Microscopy, by Illumination Method, Through 2023

Table 64: APAC Market for Fluorescence Microscopy, by Type, Through 2023

Table 65: APAC Market for Fluorescence Microscopy, by Technology, Through 2023

Table 66: APAC Market for Fluorescence Microscopy, by End User, Through 2023

Table 67: APAC Market for Fluorescence Microscopy, by Country, Through 2023

Table 68: Chinese Market for Fluorescence Microscopy, Through 2023

Table 69: Japanese Market for Fluorescence Microscopy, Through 2023

Table 70: Indian Market for Fluorescence Microscopy, Through 2023

Table 71: South Korean Market for Fluorescence Microscopy, Through 2023

Table 72: Australian Market for Fluorescence Microscopy, Through 2023

Table 73: South American Market for Fluorescence Microscopy, Through 2023

Table 74: Middle Eastern and African Market for Fluorescence Microscopy, Through 2023

Table 75: Select Global Patents Related to Fluorescence Microscopy, by Company, 2000 Onward

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 1: Global Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 2: Global Market for Fluorescence Microscopy, by Type, 2017-2023

Figure 3: Global Market Shares of Fluorescence Microscopy, by Type, 2017

Figure 4: Global Market Shares of Fluorescence Microscopy, by Type, 2018

Figure 5: Global Market Shares of Fluorescence Microscopy, by Type, 2023

Figure 6: Global Market for Inverted Fluorescence Microscopy, 2017-2023

Figure 7: Global Market for Upright Fluorescence Microscopy, 2017-2023

Figure 8: Global Market for Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 9: Global Market Shares of Fluorescence Microscopy, by Illumination Method, 2017

Figure 10: Global Market Shares of Fluorescence Microscopy, by Illumination Method, 2023

Figure 11: Global Market for Episcopic/Reflected Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 12: Global Market for Diascopic/Transmitted Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 13: Global Market for Fluorescence Microscopy, by Technology, 2017-2023

Figure 14: Global Market Shares of Fluorescence Microscopy, by Technology, 2017

Figure 15: Global Market Shares of Fluorescence Microscopy, by Technology, 2018

Figure 16: Global Market Shares of Fluorescence Microscopy, by Technology, 2023

Figure 17: Global Market for Epifluorescence Microscopy, by Technology, 2017-2023

Figure 18: Global Market for Multiphoton Microscopy, by Technology, 2017-2023

Figure 19: Global Market for TIRF Microscopy, by Technology, 2017-2023

Figure 20: Global Market for Confocal Microscopy, by Technology, 2017-2023

Figure 21: Global Market for Super Resolution Fluorescence Microscopy, by Technology, 2017-2023

Figure 22: Global Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 23: Global Market Shares of Fluorescence Microscopy, by Component, 2017

Figure 24: Global Market Shares of Fluorescence Microscopy, by Component, 2018

Figure 25: Global Market Shares of Fluorescence Microscopy, by Component, 2023

Figure 26: Global Market for Fluorescence Microscopy Equipment, by Component, 2017-2023

Figure 27: Global Market for Fluorescence Microscopy Software and Consumables, by Component, 2017-2023

Figure 28: Global Market for Fluorescence Microscopy, by End Use, 2017-2023

Figure 29: Global Market Shares of Fluorescence Microscopy, by End Use, 2017

Figure 30: Global Market Shares of Fluorescence Microscopy, by End Use, 2018

Figure 31: Global Market Shares of Fluorescence Microscopy, by End Use, 2023

Figure 32: Global Market for Fluorescence Microscopy in Biological Research, by End Use, 2017-2023

Figure 33: Global Market for Fluorescence Microscopy in the Medical Sciences, by End Use, 2017-2023

Figure 34: Global Market for Fluorescence Microscopy in Hospitals, by End Use, 2017-2023

Figure 35: Global Market for Fluorescence Microscopy in the Material Sciences, by End Use, 2017-2023

Figure 36: Global Market for Fluorescence Microscopy in Other End Uses, 2017-2023

Figure 37: Global Market for Fluorescence Microscopy, by Region, 2017-2023

Figure 38: Global Market for Fluorescence Microscopy, by Region, 2017

Figure 39: Global Market for Fluorescence Microscopy, by Region, 2018

Figure 40: Global Market for Fluorescence Microscopy, by Region, 2023

Figure 41: North American Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 42: North American Market for Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 43: North American Market for Fluorescence Microscopy, by Type, 2017-2023

Figure 44: North American Market for Fluorescence Microscopy, by Technology, 2017-2023

Figure 45: North America Market for Fluorescence Microscopy, by End User, 2017-2023

Figure 46: North American Market for Fluorescence Microscopy, by Country, 2017-2023

Figure 47: U.S. Market for Fluorescence Microscopy, 2017-2023

Figure 48: Canadian Market for Fluorescence Microscopy, 2017-2023

Figure 49: Canadian Market for Fluorescence Microscopy, 2017-2023

Figure 50: European Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 51: European Market for Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 52: European Market for Fluorescence Microscopy, by Type, 2017-2023

Figure 53: European Market for Fluorescence Microscopy, by Technology, 2017-2023

Figure 54: European Market for Fluorescence Microscopy, by End User, 2017-2023

Figure 55: European Market for Fluorescence Microscopy, by Country, 2017-2023

Figure 56: Germany Market for Fluorescence Microscopy, 2017-2023

Figure 57: U.K. Market for Fluorescence Microscopy, 2017-2023

Figure 58: France French Market for Fluorescence Microscopy, 2017-2023

Figure 59: Italian Market for Fluorescence Microscopy, 2017-2023

Figure 60: APAC Market for Fluorescence Microscopy, by Component, 2017-2023

Figure 61: APAC Market for Fluorescence Microscopy, by Illumination Method, 2017-2023

Figure 62: APAC Market for Fluorescence Microscopy, by Type, 2017-2023

Figure 63: APAC Market for Fluorescence Microscopy, by Technology, 2017-2023

Figure 64: APAC Market for Fluorescence Microscopy, by End User, 2017-2023

Figure 65: APAC Market for Fluorescence Microscopy, by Country, 2017-2023

Figure 66: Chinese Market for Fluorescence Microscopy, 2017-2023

Figure 67: Japanese Market for Fluorescence Microscopy, 2017-2023

Figure 68: Indian Market for Fluorescence Microscopy, 2017-2023

Figure 69: South Korean Market for Fluorescence Microscopy, 2017-2023

Figure 70: Australian Market for Fluorescence Microscopy, 2017-2023

Figure 71: South American Market for Fluorescence Microscopy, 2017-2023

Figure 72: Middle Eastern and African Market for Fluorescence Microscopy, 2017-2023

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