

# GLOBAL MICROSCOPY MARKET FORECAST 2017-2025

<https://marketpublishers.com/r/G9B0E7C4499EN.html>

Date: November 2017

Pages: 0

Price: US\$ 2,500.00 (Single User License)

ID: G9B0E7C4499EN

## Abstracts

### KEY FINDINGS

The global microscopy market is fast evolving on account of its growing application in nanotechnology, the emergence of novel microscopy techniques and the heavy public and private investments in R&D. Over the estimated period of 2017-2025, the market is forecasted to rise with a CAGR of 7.90%.

### MARKET INSIGHTS

The Global Microscopy market segments include application, end-user, and type. The market finds its application in several areas such as life sciences, semiconductors, material sciences, and nanotechnology. The major end-users for the market consists of various industries, academic institutes, and other end-user industries. The market by type segment is further classified into electron microscopes, optical microscopes, scanning probe microscopes and confocal microscopes.

### REGIONAL INSIGHTS

Region-wise, the market is segmented into Europe, North America, Asia-Pacific and rest of the world. The Asia-Pacific market is expected to exhibit the fastest growth over the forecast period due to the increasing application of microscopes in the region in the field of life science, academic institutes, semiconductor industry, etc. The North American market is also fast developing owing to increasing research applications in the region.

### COMPETITIVE INSIGHTS

Carl Zeiss Ag, Danaher Corp, Thermo Fisher Scientific Inc, Bruker Corporation, Olympus Corporation, Nikon Corporation, Alcon Laboratories (Acquired By Novartis), Jeol Ltd, Danish Micro Engineering (Acquired By Semilab ZRT), Bayer Ag, Oxford Instruments, JPK Instruments Ag, Hitachi, GE Healthcare, and Agilent Technologies are the leading companies in this market.

## Contents

### **1. RESEARCH SCOPE**

- 1.1. STUDY GOALS
- 1.2. SCOPE OF THE MARKET STUDY
- 1.3. WHO WILL FIND THIS REPORT USEFUL?
- 1.4. STUDY AND FORECASTING YEARS

### **2. RESEARCH METHODOLOGY**

- 2.1. SOURCES OF DATA
  - 2.1.1. SECONDARY DATA
  - 2.1.2. PRIMARY DATA
- 2.2. TOP DOWN APPROACH
- 2.3. BOTTOM-UP APPROACH
- 2.4. DATA TRIANGULATION
- 2.5. ESTIMATION METHODOLOGY

### **3. EXECUTIVE SUMMARY**

- 3.1. MARKET SUMMARY
- 3.2. KEY FINDINGS
  - 3.2.1. TECHNOLOGICAL DEVELOPMENT
  - 3.2.2. UNITED STATES IS THE DOMINANT MARKET
  - 3.2.3. DEVELOPMENT OF HYBRID MICROSCOPES

### **4. MARKET DYNAMICS**

- 4.1. MARKET DEFINITION
- 4.2. DRIVERS
  - 4.2.1. INCREASING PUBLIC AND PRIVATE INVESTMENTS IN R&D
  - 4.2.2. RISING APPLICATIONS IN NANOTECHNOLOGY
  - 4.2.3. DEVELOPMENT OF NOVEL MICROSCOPIC TECHNOLOGY
  - 4.2.4. USE OF MICROSCOPES IN BIOTECHNOLOGY
- 4.3. RESTRAINTS
  - 4.3.1. HIGH COST OF EQUIPMENTS
  - 4.3.2. LIMITATIONS OF ADVANCED MICROSCOPES
- 4.4. OPPORTUNITIES

- 4.4.1. EMERGING APPLICATIONS OF MICROSCOPES
- 4.4.2. INNOVATIONS IN DIGITAL IMAGING TECHNOLOGY
- 4.5. CHALLENGES
  - 4.5.1. LACK OF SKILLED PERSONNEL
  - 4.5.2. FRAGILITY OF BIOLOGICAL SAMPLES
  - 4.5.3. RELUCTANCE OF CUSTOMERS TO UPGRADE EQUIPMENT

## **5. MARKET BY TYPE**

- 5.1. ELECTRON MICROSCOPES
  - 5.1.1. TRANSMISSION ELECTRON MICROSCOPES
  - 5.1.2. SCANNING ELECTRON MICROSCOPES
- 5.2. OPTICAL MICROSCOPES
  - 5.2.1. FLUORESCENCE MICROSCOPES
    - 5.2.1.1. TOTAL INTERNAL REFLECTION FLUORESCENCE MICROSCOPE (TIRFM)
    - 5.2.1.2. FLUORESCENCE RESONANCE ENERGY TRANSFER MICROSCOPE (FRET)
    - 5.2.1.3. FLUORESCENCE RECOVERY AFTER PHOTO-BLEACHING MICROSCOPE (FRAP)
    - 5.2.1.4. FLUORESCENCE-LIFETIME IMAGING MICROSCOPE (FLIM)
  - 5.2.2. SUPER RESOLUTION MICROSCOPES
    - 5.2.2.1. STOCHASTIC OPTICAL RECONSTRUCTION MICROSCOPE (STORM)
    - 5.2.2.2. STRUCTURED ILLUMINATION MICROSCOPY
    - 5.2.2.3. STIMULATED EMISSION DEPLETION MICROSCOPE (STED)
    - 5.2.2.4. PHOTO-ACTIVATED LOCALIZATION MICROSCOPE (PALM)
    - 5.2.2.5. REVERSIBLE SATURABLE OPTICAL FLUORESCENCE TRANSITIONS MICROSCOPE (RESOLFT)
    - 5.2.2.6. COHERENT ANTI-STROKES RAMAN SCATTERING MICROSCOPE (CARS)
- 5.3. SCANNING PROBE MICROSCOPES (SPM)
  - 5.3.1. SCANNING TUNNELING MICROSCOPES
  - 5.3.2. ATOMIC FORCE MICROSCOPES
  - 5.3.3. NEAR-FIELD SCANNING OPTICAL MICROSCOPES
- 5.4. CONFOCAL MICROSCOPES
  - 5.4.1. SPINNING DISK CONFOCAL MICROSCOPES
  - 5.4.2. MULTI-PHOTON CONFOCAL MICROSCOPES

## **6. MARKET BY END-USER**

- 6.1. ACADEMIC INSTITUTES
- 6.2. INDUSTRIES
- 6.3. OTHER END-USERS

## **7. MARKET BY APPLICATION**

- 7.1. SEMICONDUCTORS
- 7.2. LIFE SCIENCE
- 7.3. NANOTECHNOLOGY
- 7.4. MATERIAL SCIENCES

## **8. KEY ANALYTICS**

- 8.1. PORTERS 5 FORCE ANALYSIS
  - 8.1.1. THREAT OF NEW ENTRANTS
  - 8.1.2. THREAT OF SUBSTITUTE PRODUCTS
  - 8.1.3. BARGAINING POWER OF BUYERS
  - 8.1.4. BARGAINING POWER OF SUPPLIERS
  - 8.1.5. INTENSITY OF COMPETITIVE RIVALRY
- 8.2. VALUE CHAIN ANALYSIS
  - 8.2.1. R & D
  - 8.2.2. SUPPLIERS
  - 8.2.3. MANUFACTURING
  - 8.2.4. DISTRIBUTION & MARKETING
  - 8.2.5. END-USERS
- 8.3. REGULATORY FRAMEWORK
- 8.4. KEY BUYING CRITERIA
  - 8.4.1. AUTOMATED WORKFLOW
  - 8.4.2. HIGH RESOLUTION
  - 8.4.3. APPLICATION
- 8.5. INVESTMENT OUTLOOK
  - 8.5.1. REGIONAL OUTLOOK
  - 8.5.2. APPLICATION OUTLOOK
  - 8.5.3. TYPE OUTLOOK
- 8.6. VENDOR LANDSCAPE
- 8.7. OPPORTUNITY MATRIX

## **9. GEOGRAPHICAL ANALYSIS**

## 9.1. NORTH AMERICA

### 9.1.1. UNITED STATES

### 9.1.2. CANADA

## 9.2. EUROPE

### 9.2.1. UNITED KINGDOM

### 9.2.2. FRANCE

### 9.2.3. GERMANY

### 9.2.4. SPAIN

### 9.2.5. REST OF EUROPE

## 9.3. ASIA PACIFIC

### 9.3.1. INDIA

### 9.3.2. CHINA

### 9.3.3. JAPAN

### 9.3.4. SOUTH KOREA

### 9.3.5. REST OF ASIA PACIFIC

## 9.4. REST OF THE WORLD

### 9.4.1. LATIN AMERICA

### 9.4.2. MENA

## 10. COMPETITIVE LANDSCAPE

### 10.1. MARKET SHARE ANALYSIS

#### 10.1.1. DANAHER CORPORATION

#### 10.1.2. CARL ZEISS AG

#### 10.1.3. THERMO FISHER LTD

#### 10.1.4. BRUKER CORPORATION

#### 10.1.5. NIKON CORPORATION

#### 10.1.6. JEOL LTD

#### 10.1.7. OLYMPUS

### 10.2. KEY WINNING STRATEGIES

### 10.3. COMPANY PROFILES

#### 10.3.1. DANAHER CORP

##### 10.3.1.1. OVERVIEW

##### 10.3.1.2. PRODUCT PORTFOLIO

##### 10.3.1.3. STRATEGIC INITIATIVE

##### 10.3.1.4. SCOT ANALYSIS

##### 10.3.1.5. STRATEGIC ANALYSIS

#### 10.3.2. CARL ZEISS AG

- 10.3.2.1. OVERVIEW
- 10.3.2.2. PRODUCT PORTFOLIO
- 10.3.2.3. STRATEGIC INITIATIVE
- 10.3.2.4. SCOT ANALYSIS
- 10.3.2.5. STRATEGIC ANALYSIS
- 10.3.3. THERMO FISHER SCIENTIFIC INC
  - 10.3.3.1. OVERVIEW
  - 10.3.3.2. PRODUCT PORTFOLIO
  - 10.3.3.3. STRATEGIC INITIATIVE
  - 10.3.3.4. SCOT ANALYSIS
  - 10.3.3.5. STRATEGIC ANALYSIS
- 10.3.4. OLYMPUS CORPORATION
  - 10.3.4.1. OVERVIEW
  - 10.3.4.2. PRODUCT PORTFOLIO
  - 10.3.4.3. STRATEGIC INITIATIVE
  - 10.3.4.4. SCOT ANALYSIS
  - 10.3.4.5. STRATEGIC ANALYSIS
- 10.3.5. BRUKER CORPORATION
  - 10.3.5.1. OVERVIEW
  - 10.3.5.2. PRODUCT PORTFOLIO
  - 10.3.5.3. STRATEGIC INITIATIVE
  - 10.3.5.4. SCOT ANALYSIS
  - 10.3.5.5. STRATEGIC ANALYSIS
- 10.3.6. NIKON CORPORATION
  - 10.3.6.1. OVERVIEW
  - 10.3.6.2. PRODUCT PORTFOLIO
  - 10.3.6.3. STRATEGIC INITIATIVE
  - 10.3.6.4. SCOT ANALYSIS
  - 10.3.6.5. STRATEGIC ANALYSIS
- 10.3.7. JEOL LTD.
  - 10.3.7.1. OVERVIEW
  - 10.3.7.2. PRODUCT PORTFOLIO
  - 10.3.7.3. STRATEGIC INITIATIVE
  - 10.3.7.4. SCOT ANALYSIS
  - 10.3.7.5. STRATEGIC ANALYSIS
- 10.3.8. ALCON LABORATORIES (ACQUIRED BY NOVARTIS)
  - 10.3.8.1. OVERVIEW
  - 10.3.8.2. PRODUCT PORTFOLIO
  - 10.3.8.3. STRATEGIC INITIATIVE

- 10.3.8.4. SCOT ANALYSIS
- 10.3.8.5. STRATEGIC ANALYSIS
- 10.3.9. DANISH MICRO ENGINEERING (ACQUIRED BY SEMILAB ZRT)
  - 10.3.9.1. OVERVIEW
  - 10.3.9.2. PRODUCT PORTFOLIO
  - 10.3.9.3. STRATEGIC INITIATIVE
  - 10.3.9.4. SCOT ANALYSIS
  - 10.3.9.5. STRATEGIC ANALYSIS
- 10.3.10. JPK INSTRUMENTS AG
  - 10.3.10.1. OVERVIEW
  - 10.3.10.2. PRODUCT PORTFOLIO
  - 10.3.10.3. STRATEGIC INITIATIVE
  - 10.3.10.4. SCOT ANALYSIS
  - 10.3.10.5. STRATEGIC ANALYSIS
- 10.3.11. BAYER AG
  - 10.3.11.1. OVERVIEW
  - 10.3.11.2. PRODUCT PORTFOLIO
  - 10.3.11.3. STRATEGIC INITIATIVE
  - 10.3.11.4. SCOT ANALYSIS
  - 10.3.11.5. STRATEGIC ANALYSIS
- 10.3.12. OXFORD INSTRUMENTS
  - 10.3.12.1. OVERVIEW
  - 10.3.12.2. PRODUCT PORTFOLIO
  - 10.3.12.3. STRATEGIC INITIATIVE
  - 10.3.12.4. SCOT ANALYSIS
  - 10.3.12.5. STRATEGIC ANALYSIS
- 10.3.13. GE HEALTHCARE
  - 10.3.13.1. OVERVIEW
  - 10.3.13.2. PRODUCT PORTFOLIO
  - 10.3.13.3. STRATEGIC INITIATIVE
  - 10.3.13.4. SCOT ANALYSIS
  - 10.3.13.5. STRATEGIC ANALYSIS
- 10.3.14. HITACHI
  - 10.3.14.1. OVERVIEW
  - 10.3.14.2. PRODUCT PORTFOLIO
  - 10.3.14.3. STRATEGIC INITIATIVE
  - 10.3.14.4. SCOT ANALYSIS
  - 10.3.14.5. STRATEGIC ANALYSIS
- 10.3.15. AGILENT TECHNOLOGIES



- 10.3.15.1. OVERVIEW
- 10.3.15.2. PRODUCT PORTFOLIO
- 10.3.15.3. SCOT ANALYSIS
- 10.3.15.4. STRATEGIC ANALYSIS

## List Of Tables

### LIST OF TABLES

Table 1 GLOBAL MICROSCOPY MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 2 COST OF VARIOUS ADVANCED MICROSCOPES

Table 3 COMPARISON OF QUANTUM DOTS AND ORGANIC FLUOROCHROMES

Table 4 GLOBAL MICROSCOPY MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 5 GLOBAL ELECTRON MICROSCOPES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 6 GLOBAL ELECTRON MICROSCOPES MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 7 GLOBAL OPTICAL MICROSCOPE MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 8 GLOBAL OPTICAL MICROSCOPE MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 9 GLOBAL FLUORESCENCE MICROSCOPES MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 10 GLOBAL SUPER RESOLUTION MICROSCOPES MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 11 GLOBAL SCANNING PROBE MICROSCOPES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 12 GLOBAL SCANNING PROBE MICROSCOPES MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 13 GLOBAL CONFOCAL MICROSCOPES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 14 GLOBAL CONFOCAL MICROSCOPES MARKET BY TYPE 2017-2025 (\$ MILLION)

Table 15 GLOBAL MICROSCOPY MARKET BY END-USERS 2017-2025 (\$ MILLION)

Table 16 GLOBAL ACADEMIC INSTITUTES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 17 GLOBAL INDUSTRIES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 18 GLOBAL OTHER END-USERS MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 19 GLOBAL MICROSCOPY MARKET BY APPLICATION 2017-2025 (\$ MILLION)

Table 20 GLOBAL SEMICONDUCTORS MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 21 GLOBAL LIFE SCIENCES MARKET BY GEOGRAPHY 2017-2025 (\$

MILLION)

Table 22 GLOBAL NANOTECHNOLOGY MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 23 GLOBAL MATERIAL SCIENCES MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 24 GLOBAL MICROSCOPY MARKET BY GEOGRAPHY 2017-2025 (\$ MILLION)

Table 25 NORTH AMERICA MICROSCOPY MARKET BY COUNTRY 2017-2025 (\$ MILLION)

Table 26 EUROPE MICROSCOPY MARKET BY COUNTRY 2017-2025 (\$ MILLION)

Table 27 ASIA PACIFIC MICROSCOPY MARKET BY COUNTRY 2017-2025 (\$ MILLION)

Table 28 REST OF THE WORLD MICROSCOPY MARKET BY COUNTRY 2017-2025 (\$ MILLION)

## List Of Figures

### LIST OF FIGURES

Figure 1 GLOBAL MICROSCOPY MARKET BY TYPE 2017-2025 (\$ MILLION)

Figure 2 DEVELOPMENTAL TIMELINE

Figure 3 GLOBAL ELECTRON MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 4 GLOBAL TRANSMISSION ELECTRON MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 5 GLOBAL SCANNING ELECTRON MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 6 GLOBAL OPTICAL MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 7 GLOBAL FLUORESCENCE MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 8 GLOBAL TOTAL INTERNAL REFLECTION FLUORESCENCE MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 9 GLOBAL FLUORESCENCE RESONANCE ENERGY TRANSFER MARKET 2017-2025 (\$ MILLION)

Figure 10 GLOBAL FLUORESCENCE RECOVERY AFTER PHOTO-BLEACHING MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 11 GLOBAL FLUORESCENCE-LIFETIME IMAGING MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 12 GLOBAL SUPER RESOLUTION MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 13 GLOBAL STOCHASTIC OPTICAL RECONSTRUCTION MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 14 GLOBAL STRUCTURED ILLUMINATION MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 15 GLOBAL STIMULATED EMISSION DEPLETION MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 16 GLOBAL PHOTO-ACTIVATED LOCALIZATION MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 17 GLOBAL REVERSIBLE SATURABLE OPTICAL FLUORESCENCE TRANSITIONS MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 18 GLOBAL COHERENT ANTI-STROKES RAMAN SCATTERING MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 19 GLOBAL SCANNING PROBE MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 20 GLOBAL SCANNING TUNNELING MICROSCOPE MARKET 2017-2025 (\$

MILLION)

Figure 21 GLOBAL ATOMIC FORCE MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 22 GLOBAL NEAR-FIELD SCANNING OPTICAL MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 23 GLOBAL CONFOCAL MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 24 GLOBAL SPINNING DISK CONFOCAL MICROSCOPE MARKET 2017-2025 (\$ MILLION)

Figure 25 GLOBAL MULTI-PHOTON CONFOCAL MICROSCOPES MARKET 2017-2025 (\$ MILLION)

Figure 26 GLOBAL ACADEMIC INSTITUTES MARKET 2017-2025 (\$ MILLION)

Figure 27 GLOBAL INDUSTRIES MARKET 2017-2025 (\$ MILLION)

Figure 28 GLOBAL OTHER END-USERS MARKET 2017-2025 (\$ MILLION)

Figure 29 GLOBAL SEMICONDUCTORS MARKET 2017-2025 (\$ MILLION)

Figure 30 GLOBAL LIFE SCIENCES MARKET 2017-2025 (\$ MILLION)

Figure 31 GLOBAL NANOTECHNOLOGY MARKET 2017-2025 (\$ MILLION)

Figure 32 GLOBAL MATERIAL SCIENCES MARKET 2017-2025 (\$ MILLION)

Figure 33 INVESTMENT PROPOSITION FOR MICROSCOPY MARKET BY REGION

Figure 34 INVESTMENT PREPOSITION FOR MICROSCOPY MARKET BY APPLICATION

Figure 35 INVESTMENT PROPOSITION FOR MICROSCOPY MARKET BY TYPE

Figure 36 US MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 37 CANADA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 38 UK MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 39 FRANCE MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 40 GERMANY MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 41 SPAIN MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 42 REST OF EUROPE MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 43 INDIA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 44 CHINA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 45 JAPAN MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 46 SOUTH KOREA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 47 REST OF ASIA PACIFIC MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 48 LATIN AMERICA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 49 MENA MICROSCOPY MARKET 2017-2025 (\$ MILLION)

Figure 50 GLOBAL MICROSCOPY MARKET SHARE OF TOP SEVEN COMPANIES IN 2016

## I would like to order

Product name: GLOBAL MICROSCOPY MARKET FORECAST 2017-2025

Product link: <https://marketpublishers.com/r/G9B0E7C4499EN.html>

Price: US\$ 2,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G9B0E7C4499EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970