Microscopes - Global Strategic Business Report

Description: This report analyzes the worldwide markets for Microscopes in US$ Million/Thousands by the following Product Segments: Optical Microscopes, Charged Particle Microscopes, and Scanning Probe Microscopes. The report also analyzes the world market by the following End-Use Applications: Semiconductor Manufacturing, Life Sciences, Materials, Nanotechnology, and Others. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East, and Latin America.

Annual estimates and forecasts are provided for the period 2013 through 2020. Also, a seven-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs.

The report profiles 88 companies including many key and niche players such as:
- Agilent Technologies, Inc.
- Bruker Corporation
- Carl Zeiss AG
- FEI Company
- Jeol USA, Inc.

Contents:

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study
1. Optical Microscopes
2. Charged Particle Microscopes
3. Scanning Probe Microscopes

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

Microscopes
Market Snapshots
Microscopy
A Big Market Targeting Small Objects
Current & Future Analysis of Product and Application Segments
Technological Advancements Propel Growth for Microscopes
Recent Technological Innovations in the Field of Microscopy
TSOM Microscopy Technique for Measuring 3D Structures of Tiny Objects
Researchers at UCLA Develop Lens-Less Microscopy with High Resolution Capability
Hilo Microscopy Develops Affordable Alternative to Expensive Confocal Microscopes
STEHM, the Highest Ever Resolution Microscope Unveiled by Researchers
3D-CRT with Capability of Tracking Real Time 3D Position of Diffusing Nanoparticles

2. MARKET TRENDS, DRIVERS AND ISSUES

Advanced Microscopy Techniques Topple Optical Microscopes Demand
A Major Trend
A Trend towards Integrated Instrumentation
APAC
A High Potential Market for Advanced Microscopy Techniques
Advancements in Microscopy Aid Neuroscience Projects
Microscopes Become Hi-Tech
Move towards Digital Imaging
Low Energy Electron Microscopes for Nanostructure Analysis

Key Statistics:
Table 1: Global Market for Surface Science Instrumentation (2013): Percentage Share Breakdown of Value Sales by Instrument Type (includes corresponding Graph/Chart)
Table 2: Global Market for Surface Science Instrumentation (2013): Percentage Share Breakdown of Value Market Share by Manufacturer (includes corresponding Graph/Chart)
Table 3: Global Market for Electron Microscopes (2013): Percentage Share Breakdown of Value Sales by Manufacturer (includes corresponding Graph/Chart)
Table 4: World Market for Electron Microscopes (2013): Percentage Breakdown of Revenues by End-Use Markets
Table 5: Leading Players in the World Light Microscopes Market (2013): Percentage Share Breakdown of Revenues for Carl Zeiss, Inc., Leica Microsystem, Nikon Corp., Olympus Corp., and Others (includes corresponding Graph/Chart)
Table 6: World Market for Light Microscopes (2013): Percentage Breakdown of Revenues by End-Use Markets
Table 7: World Market for Scanning Probe (2013): Percentage Breakdown of Revenues by End-Use Markets
Imports and Exports
Table 8: Global Exports of Compound Optical Microscope (2012): Percentage Share Breakdown of Value Exports by Top Ten Countries (includes corresponding Graph/Chart)
Table 9: Global Imports of Compound Optical Microscope (2012): Percentage Share Breakdown of Value Imports by Top Ten Countries (includes corresponding Graph/Chart)
Table 10: Global Exports of Microscopes (Excl. Optical Microscopes) (2012): Percentage Share Breakdown of Value Exports by Top Ten Countries (includes corresponding Graph/Chart)
Table 11: Global Imports of Microscopes (Excl. Optical Microscopes) (2012): Percentage Share Breakdown of Value Imports by Top Ten Countries (includes corresponding Graph/Chart)

3. PRODUCT OVERVIEW

Background and Development
Microscopes of the 19th Century
Advances in Microscope Technology
Microscopy
Old Technology Attains New Life
Microscopically Performed Procedures
Surface Analysis Process
Manual Microscopic Analysis
A. Optical Microscopes
Principles of Operation
Innovations in Optical Microscopy
B. Charged Particle Microscopes
Applications
Types of Electron Microscopes
Transmission Electron Microscopes
Description
The Illuminating System
Imaging System
Image Recording System
Scanning Electron Microscopes
Description
Environmental and Variable Pressure SEMs
Advances in Scanning Electron Microscopes
Scanning Transmission Electron Microscopes
High Voltage Electron Microscopes
Comparison of Light Microscopes and Electron Microscopes
Drawbacks of Electron Optics
C. Scanning Probe Microscopes
Description
Working Principle
Atomic Force Microscopes (AFMs)
Scanning Tunneling Microscopes
D. Other Types of Microscopes
Elasticity Microscopes
Magnetic Force Microscopes
Force Modulation Microscopes
Pol-Scope and Differential Interference Contrast (DIC) Microscopes
Acoustic Microscopes
C-mode Scanning Acoustic Microscope (C-SAM)
Microscopes
Application Segments
Microscopes in Semiconductor Wafer Manufacturing
Microscopes in Life Sciences Research
Application Areas:
Medical Diagnostics & Surgery
Urinary Analysis
Use in Surgical Procedures
Artificial Joint Surface Smoothness Testing
Microscopes in Materials Research
Microscopes in Nanotechnology
Other Application Areas of Microscopes
Scanning Acoustic Microscopes in Tooling
Critical Dimension Atomic Force Microscopes in Meteorological Applications
Photon Tunneling Microscopes for Study of Silicon Wafers
Magnetic Resonance Force Microscopes Help Locate Electrostatic Repulsion of Electrons
SPMs in Surface Fabrication
AFMs in Study of Hot-Electron Lifetimes
AFM Employed in Analyzing Structure of Gold Plating on Electronic Components
Microscopes Reveal Flat Surface Morphology of SiO2 Films
Scanning Near-Field Microscopy Used in Characterization of Optical Fibers
Microscope to Study Calcium Sparking

4. PRODUCT INTRODUCTIONS/INNOVATIONS

Park Systems Unveils High Throughout Quickstep SCM
Ocean Optics Launches iDRaman Microscope
Lasertec Introduces OPTELICS® HYBRID Confocal Scanning Laser Microscope
Celestron Unveils Novel Handheld Digital Pro and Infiniview Desktop LCD Microscopes
Exo Labs Introduces Focus Microscope Camera for iPad
Sibress Launches Novel Ultra Compact Digital Microscope
Bruker Introduces ContourSP Microscope
Agilent Launches 7500 Atomic Force Microscope
FEI Launches Tecnai™ Femto Ultrafast Electron Microscope
Haag-Streit Launches Hi-R NEO 900 Ophthalmic Surgical Microscope
Alcon Introduces LuxORTM Surgical Ophthalmic Microscope
Park Systems Launches Park XE15 AFM
Bruker Launches Opterra Multipoint Scanning Confocal Microscope
JPK Instruments Launches NanoWizard® ULTRA Speed AFM
Carl Zeiss Microscopy Launches Two New Microscopes
Carl Zeiss Launches New EVO Series Scanning Electron Microscopes
Asylum Research Introduces MFP-3D Origin Atomic Force Microscope
Applied Scientific Instrumentation Unveils Microscopy Tool
Bruker Introduces XSense™ and XTrace™ Accessories for Electron Microscopes
Bruker Unveils SkyScan 1272 Non-Destructive X-Ray Microscope
Bruker Launches Scalable ContourGT-K 3D Optical Microscope
Leica Microsystems Upgrades Leica DMS300 Digital Microscope System with New Accessories
Leica Microsystems Introduces Leica FluoScout™ Online Tool
Leica Introduces the Leica LMT260 XY Scanning Stage
Nikon Launches Stereo Microscopes SMZ25 and SMZ18
Leica and TrueVision® Launch 3D Surgical Microscopes
Leica Launches Leica Application Suite Advanced Fluorescence 3.2 Software
Leica Launches Leica SR GSD 3D Wide-Field Fluorescence Microscope
ZEISS Introduces Next Generation EVO
Olympus Introduces Laser Confocal Microscope LEXT OLS4100
Hitachi High-Technologies Launches SU8200 series FE-SEMs
Hitachi High -Tech Introduces Hitachi TM3030Tabletop SEM
Park Systems Launches the Park NX20 AFM
Olympus Introduces LEXT OLS4100 Confocal Laser Microscope
Motic Launches the Zoom Stereo Microscope Series
Carl Zeiss Microscopy Unveils Multiphoton Confocal Microscopes
Carl Zeiss Launches Zen 2011 Software for Confocal Laser Scanning Microscopes
Bruker Launches NanoLens®, an AFM Accessory for ContourGT® Optical Microscopes
ZEISS Launches Xradia 810 Ultra X-Ray Microscope
Olympus Launches LEXT OLS4100 3D Industrial Laser Microscope
UVa Introduces a New Powerful Microscope
Australian Scientists Develop Small Needle Microscope to Detect Breast Cancer Cells
Glasgow Scientists Centre Rolls Out an Electron Microscope, MagTEM
Barska Launches Professional Microscopes Range
JEOL Unveils JSM Range of Field Emission Scanning Electron Microscopes
Tescan Launches FERA3 XMH Scanning Electron Microscopes
TAGARNO Introduces New TAGARNO AIR microscope System
Motic Unveils New SMZ161 and SMZ171 Stereo Microscopes
Carl Zeiss Launches New Lightsheet Z.1 Microscopy System
Nikon Releases Two New 3G PFS Microscopes
Nikon Launches New Perfect Focus System Models for Inverted Microscope Eclipse Ti.
Olympus Unveils FLUOVIEW FV1200MPE and FLUOVIEW FV1200 Advanced Laser Scanning Microscopes
Olympus Unveils Three New IX3 Line of Research Inverted Microscopes
Nikon Instruments Unveils High Content Microscope System
Bruker Unveils ContourGT-I 3D Optical Microscope
Queensgate Introduces Microscopy Products with Dual Sensor Technology
Olympus Introduces IX3® Microscope Series
Hitachi High-Tech Unveils Innovative HD-2700 STEM
JEOL Unveils JCM-6000 NeoScope II Desktop SEM
Tescan Releases TiMA, an Analytical Scanning Electron Microscope
Carl Zeiss Launches Axio Zoom V.16 Microscope
FEI Launches New Range of Correlative Light and Electron Microscopy Products
FEI Launches New Transmission Electron Microscope
Olympus Launches DP80 Novel Microscope Digital Camera
Leica Introduces New Version of LAS AF 3 Research Microscopy Software
Olympus Introduces Upgraded DSX Series Opto-Digital Microscopes
Bruker Launches Advanced Nanoelectrical Mode AFMs
Olympus America Introduces New iXon EMCCD Camera-Based Microscopes
Bruker Launches Dimension Edge™ PSS Atomic Force Microscope
JEOL Launches Stage Navigation System
Olympus Releases BX63 Motorized Microscope
Vision Engineering Unveils SX25 Stereo-Zoom Microscope
Phenom-World Unveils Advanced Phenom Desktop SEMs
Nikon Launches ECLIPSE Ci Series Standing Microscope Systems
NT-MDT Introduces NanoEducator II, Mid-Range, High-Stability AF/STM
Hitachi High-Tech Launches the New SU8000 Range of FE-SEMs
FEI Introduces Titan G2 80-200 Microscope
HORIBA Scientific Launches XiProRA INV Compact Analytical Raman Chemical Imaging Microscope
Bruker Releases ScanAsyst-HR a New Feature to MultiMode® 8 AFM
Nikon Launches ECLIPSE LV-N series Industrial Microscopes
Nikon Unveils ECLIPSE Ni and ECLIPSE Ci Series of New Microscopes
Nikon Launches New SMZ745 Stereoscopic Microscope

5. RECENT INDUSTRY ACTIVITY

ZEISS Takes Over Xradia
Leica Inks Global Distribution Agreement with Bausch & Lomb
Phase Focus and Gatan Ink Licensing Agreement
Zeiss and Henry Schein Ink Distribution Agreement
Bruker Corporation Takes Over Prairie Technologies
Carl Zeiss Expands Production Unit in Cambridge
Haag-Streit Establishes Haag-Streit Surgical Division
Leica Incorporates TrueVision® 3D Technology in Select Surgical Microscope Models
Carl Zeiss Enters into Exclusive Distribution Agreement with Inter Medico
UCLA Develop New Smartphone-based Fluorescence Microscope
Xradia’s VersaXRM 3D X-ray Microscope Utilized for Synchrotron-Grade Research
Meade Merges with Sunny Group Companies
Domaille Engineering Completes Takeover of OptiSpec® from Micro Enterprises
Oxford Instruments Acquires Asylum Research
Alcon Acquires Endure Medical Systems
Omek Optics Teams Up with Allied Vision to Develop Mic401ET Microscope
WiTec Sets Up New Regional Offices in Japan
Life Technologies Takes Over Advanced Microscopy Group
FEI Takes Over ASPEX
Carl Zeiss and Gatan Sign Collaboration Agreement
Oxford Instruments Takes Over Omicron NanoTechnology
Oxford Instruments Takes Over Omniprobe
ISee3D Enters into an Agreement with Hamilton Thorne
WiTec Enters into Agreement with ALS
Hitachi High Technologies Enter into an Alliance with Buehler

6. FOCUS ON SELECT GLOBAL PLAYERS

Agilent Technologies, Inc. (US)
Bruker Corporation (US)
Carl Zeiss AG (Germany)
FEI Company (US)
Hitachi High Technologies America, Inc. (US)
Jeol USA, Inc. (US)
JPK Instruments AG (Germany)
Leica Microsystems GmbH (Germany)
Nikon Corporation (Japan)
NT-MDT Europe BV (Netherlands)
Olympus Corporation (Japan)
Optiscan Pty. Ltd. (Australia)
Thermo Fisher Scientific, Inc. (US)
WiTec GmbH (Germany)

7. GLOBAL MARKET PERSPECTIVE

Table 12: World Recent Past, Current & Future Analysis for Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 13: World Historic Review for Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 14: World 15-Year Perspective for Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Table 15: World Recent Past, Current & Future Analysis for Optical Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 16: World Historic Review for Optical Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 17: World 15-Year Perspective for Optical Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Table 18: World Recent Past, Current & Future Analysis for Charged Particle Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 19: World Historic Review for Charged Particle Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 20: World 15-Year Perspective for Charged Particle Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Table 21: World Recent Past, Current & Future Analysis for Scanning Probe Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 22: World Historic Review for Scanning Probe Microscopes by Geographic Region
US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 23: World 15-Year Perspective for Scanning Probe Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East and Latin America Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

By End-Use Application

Table 24: World Recent Past, Current & Future Analysis for Microscopes by End-Use Application
Semiconductor Manufacturing, Life Sciences, Materials, Nanotechnology, and Other Application Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 25: World Historic Review for Microscopes by End-Use Application
Semiconductor Manufacturing, Life Sciences, Materials, Nanotechnology, and Other Application Markets
Independently Analyzed with Annual Sales Figures in US$ Million for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 26: World 15-Year Perspective for Microscopes by End-Use Application
Percentage Breakdown of Dollar Sales for Semiconductor Manufacturing, Life Sciences, Materials, Nanotechnology, and Other Application Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

III. MARKET

1. THE UNITED STATES

A. Market Analysis
Current and Future Analysis
Electron Microscopes Market
Table 27: US Electron Microscopes Market (2013): Percentage Share Breakdown of Value Sales by End-Use Segments (includes corresponding Graph/Chart)
Export & Import Scenario
Table 28: US Exports of Optical Microscopes (2013): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 29: US Imports of Optical Microscopes (2013): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Table 30: US Exports of Compound Optical Microscopes (2013): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 31: US Imports of Compound Optical Microscopes (2013): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Table 32: US Exports of Stereoscopic Microscopes (2012): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 33: US Imports of Stereoscopic Microscopes (2012): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Product Launches
Recent Industry Activity
Key Players
B. Market Analytics
Table 34: US Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently
Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 35: US Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 36: US 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

2. CANADA
A. Market Analysis
Current and Future Analysis
Imports & Exports Scenario
Table 37: Canadian Imports of Optical Microscopes (2013): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Table 38: Canadian Exports of Optical Microscopes (2013): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 39: Canadian Exports of Compound Optical Microscopes (2013): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 40: Canadian Imports of Compound Optical Microscopes (2013): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Table 41: Canadian Exports of Stereoscopic Microscopes (2012): Percentage Share Breakdown of Value Exports by Top Ten Destination Countries (includes corresponding Graph/Chart)
Table 42: Canadian Imports of Stereoscopic Microscopes (2012): Percentage Share Breakdown of Value Imports by Top Ten Countries of Origin (includes corresponding Graph/Chart)
Recent Industry Activity
B. Market Analytics
Table 43: Canadian Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 44: Canadian Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 45: Canadian 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

3. JAPAN
A. Market Analysis
Current & Future Analysis
Product launches
Key players
B. Market Analytics
Table 46: Japanese Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 47: Japanese Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 48: Japanese 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4. EUROPE
A. Market Analysis
Current & Future Analysis
Microscopes: A Market Overview

B. Market Analytics

Table 49: European Recent Past, Current & Future Analysis for Microscopes by Geographic Region
France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 50: European Historic Review for Microscopes by Geographic Region
France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 51: European 15-Year Perspective for Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Table 52: European Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 53: European Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 54: European 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4a. FRANCE
Market Analysis

Table 55: French Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 56: French Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 57: French 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4b. GERMANY

A. Market Analysis
Current and Future Analysis
Product Launches
Recent Industry Activity
Key Players

B. Market Analytics

Table 58: German Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 59: German Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 60: German 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4c. ITALY
Market Analysis

Table 61: Italian Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 62: Italian Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding
Table 63: Italian 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4d. THE UNITED KINGDOM
A. Market Analysis
Current and Future Analysis
Product Launches
Recent Industry Activity
B. Market Analytics
Table 64: UK Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 65: UK Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 66: UK 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4e. SPAIN
Market Analysis
Table 67: Spanish Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 68: Spanish Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 69: Spanish 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4f. RUSSIA
A. Market Analysis
Current and Future Analysis
Product Launch
B. Market Analytics
Table 70: Russian Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 71: Russian Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 72: Russian 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

4g. REST OF EUROPE
A. Market Analysis
Current and Future Analysis
Product Launches
B. Market Analytics
Table 73: Rest of Europe Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 74: Rest of Europe Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 75: Rest of Europe 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC

A. Market Analysis
Current & Future Analysis
Market Overview
APAC
A. High Potential Market for Advanced Microscopy Techniques
B. Market Analytics

Table 76: Asia-Pacific Recent Past, Current & Future Analysis for Microscopes by Geographic Region
China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 77: Asia-Pacific Historic Review for Microscopes by Geographic Region
China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 78: Asia-Pacific 15-Year Perspective for Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for China, India and Rest of Asia-Pacific Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)
Table 79: Asia-Pacific Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 80: Asia-Pacific Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 81: Asia-Pacific 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

5a. CHINA
A. Market Analysis
Current and Future Analysis
Product Launch
B. Market Analytics

Table 82: Chinese Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 83: Chinese Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 84: Chinese 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

5b. INDIA
Market Analysis

Table 85: Indian Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 86: Indian Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 87: Indian 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

5c. REST OF ASIA-PACIFIC
A. Market Analysis
Current and Future Analysis
Product Launch
Key Player
B. Market Analytics

Table 88: Rest of Asia-Pacific Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 89: Rest of Asia-Pacific Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 90: Rest of Asia-Pacific 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

6. THE MIDDLE EAST
A. Market Analysis
Current and Future Analysis
Recent Industry Activity
B. Market Analytics

Table 91: Middle East Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 92: Middle East Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 93: Middle East 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

7. LATIN AMERICA
A. Market Analysis
Current & Future Analysis
Microscopy Market in Latin America
B. Market Analytics

Table 94: Latin American Recent Past, Current & Future Analysis for Microscopes by Geographic Region
Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 95: Latin American Historic Review for Microscopes by Geographic Region
Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 96: Latin American 15-Year Perspective for Microscopes by Geographic Region
Percentage Breakdown of Dollar Sales for Brazil and Rest of Latin America Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

Table 97: Latin American Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)

Table 98: Latin American Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)

Table 99: Latin American 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

7a. BRAZIL
Market Analysis

Table 100: Brazilian Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 101: Brazilian Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 102: Brazilian 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)
7b. REST OF LATIN AMERICA
Market Analysis
Table 103: Rest of Latin America Recent Past, Current & Future Analysis for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2013 through 2020 (includes corresponding Graph/Chart)
Table 104: Rest of Latin America Historic Review for Microscopes by Product Segment
Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets Independently Analyzed with Annual Sales Figures in US$ Thousand for Years 2006 through 2012 (includes corresponding Graph/Chart)
Table 105: Rest of Latin America 15-Year Perspective for Microscopes by Product Segment
Percentage Breakdown of Dollar Sales for Optical Microscopes, Charged Particle Microscopes and Scanning Probe Microscopes Markets for Years 2006, 2014 & 2020 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 88 (including Divisions/Subsidiaries 110)
The United States (53)
Canada (1)
Japan (12)
Europe (34)
France (1)
Germany (14)
The United Kingdom (8)
Rest of Europe (11)
Asia-Pacific (Excluding Japan) (9)
Middle East (1)

Ordering:
Order Online - http://www.researchandmarkets.com/reports/338906/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Microscopes - Global Strategic Business Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/338906/">http://www.researchandmarkets.com/reports/338906/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCH3N6RY</td>
</tr>
</tbody>
</table>

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF)</td>
<td></td>
</tr>
<tr>
<td>Single User:</td>
<td>USD 4950</td>
</tr>
<tr>
<td>1 - 5 Users:</td>
<td>USD 6930</td>
</tr>
<tr>
<td>1 - 10 Users:</td>
<td>USD 9405</td>
</tr>
<tr>
<td>1 - 15 Users:</td>
<td>USD 11880</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

Marketing Code: ________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World