

Education Microscope Market Size, Share & Trends Analysis Report By Type (Optical Microscope, Digital Microscope, Electron Microscope), By Region, And Segment Forecasts, 2023 - 2030

<https://marketpublishers.com/r/E75DC530B93EEN.html>

Date: July 2023

Pages: 108

Price: US\$ 5,950.00 (Single User License)

ID: E75DC530B93EEN

Abstracts

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Education Microscope Market Growth & Trends

The global education microscope market size is expected to reach USD 573.9 million by 2030, based on a new report by Grand View Research, Inc. The market is projected to register a CAGR of 5.29% from 2023 to 2030. The growth can be attributed to the increasing emphasis on Science, Technology, Engineering, and Mathematics (STEM) education, and enhanced funding for education by various governments and other organizations.

For instance, in February 2021, Arnold and Mabel Beckman Foundation funded USD 9.6 million to eight institutions for data science and advanced light sheet microscope. University of Colorado Boulder, Rockefeller University, Washington University in St. Louis, and the University of Rochester; undergraduate institutions at Smith College and Reed College; and research institutes at Morgridge Institute for Research & Marine Biological Laboratory received funding for research in life sciences and chemistry and instrument training & development.

The rising government initiatives to provide access to advanced technologies at school are driving the growth of the market. Government-backed programs & grants aim to improve the quality of science education and ensure schools have the necessary equipment to deliver effective practical learning experiences. For instance, in February

2023, the Joint Electron Microscopy Center at ALBA (JEMCA) was launched in Spain to provide access to two new electron microscopes to research material science and structural biology. The two microscopes include Cryo-TEM and METCAM microscope. The center offers free access to academic institutions.

The COVID-19 pandemic adversely impacted the education microscope market as most academic institutions, high schools, and colleges were closed during the period. According to the United Nations report of August 2020, the COVID-19 pandemic affected around 1.6 billion learners across 190 and more countries. However, the pandemic has necessitated new communication tools and methods for online education to enhance the learning experience. The institutions have shifted towards the virtual microscope to provide some basic technical knowledge regarding STEM education.

Education Microscope Market Report Highlights

Based on type, the optical microscope segment held the largest market share of around 90% in 2022 owing to the high adoption of this microscope including upright optical and stereo optical microscope

Based on region, North America held the largest market share of around 35% in terms of revenue in 2022 owing to the growing research and academic funding and high emphasis on providing STEM education to the learners

The market is fragmented, with the presence of many local and global players competing to gain a high share of the market. Some local players such as AmScope, OMAX, and Motic Microscope have a wide range of product portfolios specifically designed for the needs of the end customers

Increased focus on hands-on and practical training methods among universities & high schools and growing technological advancements to introduce AR and VR technologies for the development of education microscope is expected to drive the growth of the market

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