

North America Adaptive Optics Market By Component (Wavefront Sensors, Deformable Mirrors (Wavefront Correctors) and Control System), By Application (Microscopy, Ophthalmology, Laser Application and Other Applications), By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The North America Adaptive Optics Market would witness market growth of 12.7% CAGR during the forecast period (2020-2026).

The utilization of advanced technologies in the biomedical sector by nations like the U.S. and Canada is anticipated to impel market development in the region. Furthermore, increasing research with respect to Adaptive optics in different institutions and research centers present in the region is likewise anticipated to boost the development of the market. For example, the Medical College of Wisconsin is exploring Adaptive optics under its Advanced Ocular Imaging Program (AOIP). Under this program, a few volunteers have participated to share their insights and to comprehend the effective AO in treating retinal disease. For directing research under AOIP, two AO scanning light ophthalmoscope frameworks by Dubra lab have been utilized. These frameworks accompany several benefits with respect to the collecting of data on photoreceptors, nerve fiber layers, and vasculature of the retina.

In-vivo imaging is significant in biological microscopy since for studying cellular processes, living tissues act as a significant part. The significant challenge confronted while examining the living tissue is the measure of light, as it can harm the sample and may not give an illuminated structure. Subsequently, Adaptive optics is extensively utilized in microscopy to beat these difficulties. AO helps in expanding the resolution,

signal strength, and contrast proportion. These benefits of AO help in-vivo deep-tissue imaging.

Furthermore, Adaptive optics helps in settling the issue confronted while utilizing high-power microscopes for studying a huge sample. Images are patched together by adaptive optics of a large sample as a mosaic by utilizing its quick scanning microscopic stage property. Additionally, it helps in remunerating deviations caused because of optical flaws. Accordingly, the effectiveness of AO in medical microscopy and accessibility of these devices with ease in contrast with a high powered, wide field of view scanning microscope, is anticipated to drive the development of this segment.

Based on Component, the market is segmented into Wavefront Sensors, Deformable Mirrors (Wavefront Correctors) and Control System. Based on Application, the market is segmented into Microscopy, Ophthalmology, Laser Application and Other Applications. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Teledyne Technologies, Inc., Northrop Grumman Corporation, Adaptica S.r.l (He Vision Group), Thorlabs, Inc., Iris AO, Inc., Active Optical Systems Ltd., Flexible Optical B.V., Imagine Optic SA, Boston Micromachines Corporation and Phasics Corporation.

Scope of the Study

Market Segmentation:

By Component

Wavefront Sensors

Deformable Mirrors (Wavefront Correctors)

Control System

By Application

Microscopy

Ophthalmology

Laser Application

Other Applications

By Country

US

Canada

Mexico

Rest of North America

Companies Profiled

Teledyne Technologies, Inc.

Northrop Grumman Corporation

Adaptica S.r.l (He Vision Group)

Thorlabs, Inc.

Iris AO, Inc.

Active Optical Systems Ltd.

Flexible Optical B.V.

Imagine Optic SA

Boston Micromachines Corporation

Phasics Corporation

Unique Offerings from KBV Research

Exhaustive coverage

Highest number of market tables and figures

Subscription based model available

Guaranteed best price

Assured post sales research support with 10% customization free

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