

# **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**

<https://marketpublishers.com/r/N2345C046B21EN.html>

Date: November 2020

Pages: 53

Price: US\$ 1,500.00 (Single User License)

ID: N2345C046B21EN

## **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

## Contents

### **CHAPTER 1. MARKET SCOPE & METHODOLOGY**

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
  - 1.4.1 North America Adaptive Optics Market, by Component
  - 1.4.2 North America Adaptive Optics Market, by Application
  - 1.4.3 North America Adaptive Optics Market, by Country
- 1.5 Methodology for the research

### **CHAPTER 2. MARKET OVERVIEW**

- 2.1 Introduction
  - 2.1.1 Overview
  - 2.1.2 Market Composition
- 2.2 Key Factors Impacting the Market
  - 2.2.1 Market Drivers
  - 2.2.2 Market Restraints

### **CHAPTER 3. RECENT DEVELOPMENTS IN GLOBAL ADAPTIVE OPTICS MARKET**

### **CHAPTER 4. NORTH AMERICA ADAPTIVE OPTICS MARKET BY COMPONENT**

- 4.1 North America Wavefront Sensors Market by Country
- 4.2 North America Deformable Mirrors (Wavefront Correctors) Market by Country
- 4.3 North America Control System Market by Country

### **CHAPTER 5. NORTH AMERICA ADAPTIVE OPTICS MARKET BY APPLICATION**

- 5.1 North America Microscopy Market by Country
- 5.2 North America Ophthalmology Market by Country
- 5.3 North America Laser Application Market by Country
- 5.4 North America Other Applications Market by Country

### **CHAPTER 6. NORTH AMERICA ADAPTIVE OPTICS MARKET BY COUNTRY**

- 6.1 US Adaptive Optics Market
  - 6.1.1 US Adaptive Optics Market by Component
  - 6.1.2 US Adaptive Optics Market by Application
- 6.2 Canada Adaptive Optics Market
  - 6.2.1 Canada Adaptive Optics Market by Component
  - 6.2.2 Canada Adaptive Optics Market by Application
- 6.3 Mexico Adaptive Optics Market
  - 6.3.1 Mexico Adaptive Optics Market by Component
  - 6.3.2 Mexico Adaptive Optics Market by Application
- 6.4 Rest of North America Adaptive Optics Market
  - 6.4.1 Rest of North America Adaptive Optics Market by Component
  - 6.4.2 Rest of North America Adaptive Optics Market by Application

## **CHAPTER 7. COMPANY PROFILES**

- 7.1 Teledyne Technologies, Inc.
  - 7.1.1 Company Overview
  - 7.1.2 Financial Analysis
  - 7.1.3 Segmental and Regional Analysis
  - 7.1.4 Recent strategies and developments:
    - 7.1.4.1 Product Launches and Product Expansions:
    - 7.1.4.2 Acquisition and Mergers:
    - 7.1.4.3 Partnerships, Collaborations, and Agreements:
- 7.2 Northrop Grumman Corporation
  - 7.2.1 Company Overview
  - 7.2.2 Financial Analysis
  - 7.2.3 Segmental and Regional Analysis
  - 7.2.4 Research and Development Expense
- 7.3 Adaptica S.r.l (He Vision Group)
  - 7.3.1 Company Overview
- 7.4 Thorlabs, Inc.
  - 7.4.1 Company Overview
- 7.5 Iris AO, Inc.
  - 7.5.1 Company Overview
- 7.6 Active Optical Systems Ltd.
  - 7.6.1 Company Overview
- 7.7 Flexible Optical B.V.
  - 7.7.1 Company Overview
- 7.8 Imagine Optic SA

7.8.1 Company Overview

7.9 Boston Micromachines Corporation

7.9.1 Company Overview

7.9.2 Recent strategies and developments:

7.9.2.1 Product Launches and Product Expansions:

7.10. Phasics Corporation

7.10.1 Company Overview

## List Of Tables

### LIST OF TABLES

TABLE 1 NORTH AMERICA ADAPTIVE OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 2 NORTH AMERICA ADAPTIVE OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 3 NORTH AMERICA ADAPTIVE OPTICS MARKET BY COMPONENT, 2016 - 2019, USD MILLION

TABLE 4 NORTH AMERICA ADAPTIVE OPTICS MARKET BY COMPONENT, 2020 - 2026, USD MILLION

TABLE 5 NORTH AMERICA WAVEFRONT SENSORS MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 6 NORTH AMERICA WAVEFRONT SENSORS MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 7 NORTH AMERICA DEFORMABLE MIRRORS (WAVEFRONT CORRECTORS) MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 8 NORTH AMERICA DEFORMABLE MIRRORS (WAVEFRONT CORRECTORS) MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 9 NORTH AMERICA CONTROL SYSTEM MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 10 NORTH AMERICA CONTROL SYSTEM MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 11 NORTH AMERICA ADAPTIVE OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 12 NORTH AMERICA ADAPTIVE OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 13 NORTH AMERICA MICROSCOPY MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 14 NORTH AMERICA MICROSCOPY MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 15 NORTH AMERICA OPHTHALMOLOGY MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 16 NORTH AMERICA OPHTHALMOLOGY MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 17 NORTH AMERICA LASER APPLICATION MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 18 NORTH AMERICA LASER APPLICATION MARKET BY COUNTRY, 2020 -



2026, USD MILLION

TABLE 19 NORTH AMERICA OTHER APPLICATIONS MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 20 NORTH AMERICA OTHER APPLICATIONS MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 21 NORTH AMERICA ADAPTIVE OPTICS MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 22 NORTH AMERICA ADAPTIVE OPTICS MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 23 US ADAPTIVE OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 24 US ADAPTIVE OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 25 US ADAPTIVE OPTICS MARKET BY COMPONENT, 2016 - 2019, USD MILLION

TABLE 26 US ADAPTIVE OPTICS MARKET BY COMPONENT, 2020 - 2026, USD MILLION

TABLE 27 US ADAPTIVE OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 28 US ADAPTIVE OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 29 CANADA ADAPTIVE OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 30 CANADA ADAPTIVE OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 31 CANADA ADAPTIVE OPTICS MARKET BY COMPONENT, 2016 - 2019, USD MILLION

TABLE 32 CANADA ADAPTIVE OPTICS MARKET BY COMPONENT, 2020 - 2026, USD MILLION

TABLE 33 CANADA ADAPTIVE OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 34 CANADA ADAPTIVE OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 35 MEXICO ADAPTIVE OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 36 MEXICO ADAPTIVE OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 37 MEXICO ADAPTIVE OPTICS MARKET BY COMPONENT, 2016 - 2019, USD MILLION

TABLE 38 MEXICO ADAPTIVE OPTICS MARKET BY COMPONENT, 2020 - 2026, USD MILLION

TABLE 39 MEXICO ADAPTIVE OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 40 MEXICO ADAPTIVE OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 41 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 42 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 43 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET BY COMPONENT, 2016 - 2019, USD MILLION

TABLE 44 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET BY COMPONENT, 2020 - 2026, USD MILLION

TABLE 45 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 46 REST OF NORTH AMERICA ADAPTIVE OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 47 KEY INFORMATION – TELEDYNE TECHNOLOGIES, INC.

TABLE 48 KEY INFORMATION – NORTHROP GRUMMAN CORPORATION

TABLE 49 KEY INFORMATION – ADAPTICA S.R.L

TABLE 50 KEY INFORMATION – THORLABS, INC.

TABLE 51 KEY INFORMATION – IRIS AO, INC.

TABLE 52 KEY INFORMATION – ACTIVE OPTICAL SYSTEMS LTD.

TABLE 53 KEY INFORMATION – FLEXIBLE OPTICAL B.V.

TABLE 54 KEY INFORMATION – IMAGINE OPTIC SA

TABLE 55 KEY INFORMATION – BOSTON MICROMACHINES CORPORATION

TABLE 56 KEY INFORMATION – PHASICS CORPORATION

## List Of Figures

### LIST OF FIGURES

FIG 1 METHODOLOGY FOR THE RESEARCH

FIG 2 RECENT STRATEGIES AND DEVELOPMENTS: TELEDYNE TECHNOLOGIES, INC.

## I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/N2345C046B21EN.html>

Price: US\$ 1,500.00 (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/N2345C046B21EN.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