

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

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Abstracts

The Global Adaptive Optics Market size is expected to reach \$433.2 Million by 2026, rising at a market growth of 13.5% CAGR during the forecast period. Adaptive Optics (AO) is quickly picking up demand as a possibility for enhancing the performance of optical systems. Optical instruments experience errors while measuring and imaging because of distortions found in light waves. Adaptive optics assists with nullifying these mistakes, in this way, improving the performance of the optical instruments. The increasing prevalence of retinal degeneration diseases is anticipated to impel the development of the market. Age-related Macular Degeneration (AMD) and Retinitis Pigmentosa (RP) are the most well-known retinal degenerative diseases across the world.

High-resolution phenotyping with adaptive optics imaging alongside molecular genetics analyses is anticipated to improve the clinical imaging of AMD and RP in the beginning phases. The increasing use of Adaptive optics for clinical application and research is anticipated to fuel the overall market development. Adaptive optics alongside Optical Coherence Tomography (OCT) is slowly penetrating the market because of its viability in giving enhanced and high-speed imaging. Advanced deformable mirrors are being created to exactly control the incident wavefront by reshaping a reflecting membrane with the assistance of precise magnetic actuators.

The improvement of these deformable mirrors is anticipated to decrease the size, cost, and complexity of AO-OCT gadgets, accordingly, making adaptive optics broadly adopted for different clinical applications. In this manner, the development of cutting edge Adaptive optics devices alongside increasing endeavors of vision researchers, ophthalmologists, and entrepreneurs in its development and research, is anticipated to drive the market.

The increasing prevalence of various retinal infections, for example, retinal degenerations, inherited color vision deficiencies, albinism, glaucoma, and numerous other eye diseases is anticipated to drive the market. Furthermore, the increasing awareness of Adaptive Optics (AO) and its efficient utilization in research for retinal imaging is also anticipated to contribute towards market development.

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 Regions, the market is segmented into North America, Europe, Asia Pacific, and Latin America, Middle East & Africa.

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.

Strategies deployed in Adaptive Optics Market

Sep-2019: Teledyne e2v launched its Flash CMOS image sensor family, specifically developed for 3D laser profiling/displacement applications and high speed, high resolution inspection. The new Flash sensors feature a 6 μ m CMOS global shutter pixel that effectively integrates high resolution and fast frame rate.

Jan-2019: Teledyne Technologies took over the scientific imaging businesses of Roper Technologies, a company that designs and develops software (both license and software-as-a-service) and engineered products and solutions for a variety of niche end markets. The acquisition added imaging solutions, primarily for the life sciences and academic research, to Teledyne's already strong portfolio of imaging products.

Oct-2018: Boston Micromachines Corporation introduced fully-functioning 2040 element MEMS deformable mirror. This launch was the part of a NASA Phase II Small Business Innovation Research Program (SBIR) contract, monitored by NASA's Jet Propulsion

Laboratory (JPL), to develop DM technology needed for exo-planet imaging on the next generation space-based telescopes. The SBIR project resulted in developing new manufacturing approaches for small-stroke, high precision DMs scalable to 8,000 or more actuators.

Oct-2018: Teledyne DALSA and Teledyne e2v introduced a portfolio of vision solutions CMOS image sensors. These sensors includes Snappy and Emerald series, Calibir, Genie Nano 5GigE, Genie Nano CXP, Linea HS, Linea ML, Piranha4 Color, Xtium2, and Z-Trak.

May-2017: Teledyne signed an agreement with ESO for designing and producing a set of Large Visible Sensor Modules for use on the Extremely Large Telescope (ELT). The ELT is at the forefront of telescope technology. The ELT uses highly sophisticated adaptive optics systems, which enables it to adjust for changes in the atmosphere above it. These systems will require sensors of the highest quality.

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 Geography

North America

US

Canada

Mexico

Rest of North America

Europe

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

LAMEA

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

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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