

Asia Pacific 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 Asia Pacific Adaptive Optics Market would witness market growth of 14.9% CAGR during the forecast period (2020-2026).

The sensor assists with splitting the light into small beams with the assistance of an array of miniature lenses, named as lenslets. The most regularly utilized sensor is the Shack-Hartmann Wavefront Sensor because of its simple structure and simple manufacturability. Different methods that are utilized for wavefront detecting are curvature and pyramid sensors; notwithstanding, the use of these sensors is similarly low considering their complexity.

Furthermore, the associated benefits of wavefront sensors over topography are additionally anticipated to propel the development of this segment. The significant benefit which wavefront sensors have over corneal topographers is that the topographer just tells about a surface of the optics of the eye. Nonetheless, the wavefront sensors provide an idea regarding the total impact of all optical surfaces. This, thus, helps in improving the quality of the retinal image.

In the Asia Pacific, the market is anticipated to encounter the highest growth rate during the forecast period. The increasing market clearance of Adaptive optics devices in nations like China, Japan, India, and South Korea is anticipated to propel the

development of the market in the APAC region. In March 2020, Imagine Eye's AO retinal camera, rtx 1 got administrative clearance in China. Furthermore, Imagine Eyes entered into collaboration with Aracare for expanding the distribution of its item rtx 1 in South Korea.

The Adaptive optics non-invasively helps in detecting, diagnosing, and treating eye illnesses. The increasing adoption of Adaptive optics for retinal imaging is anticipated to fuel the development of this segment. The traditional optical imaging devices are confronting difficulties in diagnosing retinal diseases because of the eye's monochromatic aberrations which happen due to the imperfections in the optics of the eye. Adaptive optics is utilized to gauge and correct these aberrations for giving a limited diffracted picture. Hence, attributable to the viability of AO it comes in different forms such as AO fundus camera, AO scanning laser ophthalmoscope, and AO-OCT in the field of ophthalmology, in this manner, anticipated to boost the growth 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 China, Japan, India, South Korea, Singapore, Malaysia, and Rest of Asia Pacific.

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

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

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

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