

AI In Ophthalmology Market Size, Share & Trends Analysis Report By Application (Disease Detection & Monitoring, Surgical Planning & Outcome Prediction), By Deployment Mode, By Technolog, By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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AI In Ophthalmology Market Summary

The global AI in ophthalmology market size was estimated at USD 209.23 million in 2024 and is projected to reach USD 1.36 billion by 2030, growing at a CAGR of 36.79% from 2025 to 2030. The rising prevalence of eye diseases, advancements in imaging technology, and expansion of teleophthalmology services are factors contributing to market growth.

In addition, growing preference for personalized treatment plans and increasing government initiatives fuel market growth further. The increasing prevalence of eye-related conditions, such as diabetic retinopathy, age-related macular degeneration (AMD), and glaucoma, is a significant factor driving the adoption of AI in ophthalmology. As the population ages, the incidence of these diseases increases, creating a need for efficient and accurate diagnostic tools. For instance, according to the CDC, the estimated number of Americans living with glaucoma in 2022 was 4.22 million. AI algorithms can rapidly analyze complex retinal images, facilitating early detection and treatment. For instance, AI systems have shown high sensitivity and specificity in identifying diabetic retinopathy, which allows for timely interventions and reduces the risk of vision loss.

Moreover, integrating advanced imaging techniques such as Optical Coherence Tomography (OCT) with AI has revolutionized ophthalmic diagnostics. High-resolution imaging provides detailed views of ocular structures, which enhances diagnostic precision when analyzed by artificial intelligence (AI). The availability of large datasets from these imaging technologies allows for the training of robust AI models, improving their accuracy and reliability in clinical settings. For instance, researchers at the Chinese University of Hong Kong (CUHK) have developed VisionFM, an advanced AI ophthalmic imaging foundation model. Trained on 3.4 million images across eight modalities, VisionFM diagnoses multiple eye diseases and uniquely predicts intracranial tumors from retinal images.

Furthermore, teleophthalmology, the remote delivery of eye care services, has gained traction, especially in underserved regions. AI is crucial in this expansion by enabling automated analysis of retinal images, facilitating remote diagnosis, and reducing the need for in-person consultations. This approach increases access to eye care and optimizes resource utilization in healthcare systems. For instance, in June 2024, C3 Med-Tech, an ophthalmic health tech startup, raised USD 0.23 million to launch AI-enabled, portable eye screening devices. The funding is expected to support telemedicine integration, real-time disease detection, and expansion across India, aiming to reduce avoidable blindness, especially in underserved communities facing a shortage of ophthalmologists.

Moreover, AI's ability to analyze and interpret data from Electronic Health Records (EHRs) facilitates personalized treatment plans in ophthalmology. AI predicts disease progression by assessing patient history, genetic information, and imaging data and recommends tailored interventions, further contributing to market growth.

Global AI In Ophthalmology Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global AI in ophthalmology market report based on application, deployment mode, technology, end-use, and region.

Application Outlook (Revenue, USD Million, 2018 - 2030)

Disease Detection and Monitoring

Retinal Disease Detection

Diabetic Retinopathy (DR)

Diabetic Macular Edema (DME)

Age-related Macular Degeneration (AMD)

Retinal Vein Occlusion (RVO)

Glaucoma Detection & Monitoring

Surgical Planning & Outcome Prediction

AI for Ophthalmic Imaging Workflow Automation

Others

Deployment Mode Outlook (Revenue, USD Million, 2018 - 2030)

On Premise

Cloud-based

Technology Outlook (Revenue, USD Million, 2018 - 2030)

Machine Learning

Deep learning

Supervised

Unsupervised

Others

Natural Language Processing

Clinical Documentation Assistance

OCR (Optical Character Recognition)

Auto-coding of Ophthalmology Notes

Text Analytics for Diagnostic Reasoning

Voice-based Diagnostic Recording (Speech-to-Text)

Context-Aware Computing

Computer Vision

End-use Outlook (Revenue, USD Million, 2018 - 2030)

Hospitals

Specialty Ophthalmology Clinics

Academic & Research Institutions

Payers & Insurance Companies

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

MEA

South Africa

Saudi Arabia

UAE

Kuwait

Companies Mentioned

OphtAI
Eyenuk, Inc.
Google LLC
IBM Corporation
Optos plc
Zeiss
Topcon Healthcare
Ikerian AG (RetinAi)
Nidek Co., Ltd.
Altris AI
Remidio Innovative Solutions Pvt Ltd.
Oculus Maxima LIMITED
Siemens Healthineers
Haag-Streit Group

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