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AI-Driven Diabetic Retinopathy Screening Market - 2024-2033

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Abstracts

The AI-Driven Diabetic Retinopathy Screening Market was valued at US$ 0.4 Billion in 2024 and is anticipated to reach US$ 2.22 Billion by 2033, at a CAGR of 0.21 from 2026 to 2032.

The report delivers in-depth insights into key market dynamics, including regional growth trends, market segmentation, CAGR projections, and the revenue performance of leading industry players. It also highlights major growth drivers shaping the market landscape. Designed to provide a clear and comprehensive perspective, the report offers a detailed view of the current market size in terms of both value and volume, along with emerging opportunities and the overall development outlook of the AI-Driven Diabetic Retinopathy Screening Market.

This report delivers a comprehensive overview of the AI-Driven Diabetic Retinopathy Screening Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding AI-Driven Diabetic Retinopathy Screening Market. The AI-Driven Diabetic Retinopathy Screening Market size, estimates, and forecasts are provided in terms of output/shipments (K MT) and revenue (US$ millions), with 2025 as the base year and historical and forecast data for 2024–2033.

AI-Driven Diabetic Retinopathy Screening Market Scope:

By Component

Software

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- Hardware
- Services

By Screening Modality

- Automated Screening
- Semi-Automated Screening
- Tele-ophthalmology-Integrated Screening

By Disease Severity Classification

- No Apparent Diabetic Retinopathy
- Mild Non-Proliferative Diabetic Retinopathy (NPDR)
- Moderate Non-Proliferative Diabetic Retinopathy (NPDR)
- Severe Non-Proliferative Diabetic Retinopathy (NPDR)
- Proliferative Diabetic Retinopathy (PDR)
- Diabetic Macular Edema (DME) Detection

By Imaging Technology

- Fundus Photography
- Optical Coherence Tomography (OCT)
- Ultra-Widefield Retinal Imaging
- Fluorescein Angiography (AI-assisted analysis)

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- Multimodal Retinal Imaging (Fundus + OCT + Clinical Data)

By End User

- Hospitals
- Clinics
- Ambulatory Surgical Centers (ASCs)
- Primary Care Settings
- Others

By Deployment Mode

- On-Premises
- Cloud-Based
- Hybrid Deployment

By Clinical Workflow Integration

- Standalone AI Screening Tools

By AI Technology

- Deep Learning (CNN-based models)
- Machine Learning (Traditional classifiers)
- Computer Vision Algorithms

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- Ensemble AI Models
- Explainable AI (XAI) Systems

By Application

- Mass Population Screening
- Early Disease Detection & Risk Assessment
- Disease Progression Monitoring
- Treatment Response Monitoring
- Referral Decision Support
- Clinical Research & Real-World Evidence Generation

By Patient Demographics

- Adult Diabetic Population
- Pediatric & Adolescent Diabetics
- Geriatric Population
- Type 1 Diabetes
- Type 2 Diabetes
- Gestational Diabetes (screening use cases)

By Regulatory & Validation Status

- Research-Use-Only (RUO) Systems

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Clinically Validated AI Tools

Regulatory-Approved Systems (FDA, CE, CDSCO)

Reimbursement-Eligible AI Solutions

Key Players

Digital Diagnostics Inc.

Topcon Healthcare

Eyenuk, Inc.

AEYE Health

IRIS (Intelligent Retinal Imaging Systems).

Optomed Plc

Forus Health (3nethra)

iCare

Major Highlights

This report delivers a comprehensive overview of the AI-Driven Diabetic Retinopathy Screening Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding AI-Driven Diabetic Retinopathy Screening Market. The AI-Driven Diabetic Retinopathy Screening Market size, estimates, and forecasts are provided in terms of output/shipments (K Sqm) and revenue (US$ millions), with 2025 as the base year and historical and forecast data for 2024–2033.

This report will assist keyword manufacturers, new entrants, and companies across the industry value chain with information on revenues, production, and average prices for

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the overall market and its sub-segments, by company, by Type, by Application, and by region.

Regional Analysis:

North America (U.S., Canada, Mexico)

Europe (U.K., Italy, Germany, Russia, France, Spain, The Netherlands and Rest of Europe)

Asia-Pacific (India, Japan, China, South Korea, Australia, Indonesia Rest of Asia Pacific)

South America (Colombia, Brazil, Argentina, Rest of South America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of Middle East & Africa)

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Target Audience 2026

Manufacturers/ Buyers

Industry Investors/Investment Bankers

Research Professionals

Emerging Companies

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11. BY CLINICAL WORKFLOW INTEGRATION

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