

US Fundus Camera Market Forecast to 2028 - COVID-19 Impact and Country Analysis by Type (Mydriatic Fundus Cameras, Non-Mydriatic Fundus Cameras, Hybrid Fundus Cameras, and ROP Fundus Cameras), Portability (Handheld and Tabletop), Application (Diabetic Retinopathy, Age-related Macular Degeneration, Retinal Vascular Disorders, and Others), and End User (Hospitals, Ophthalmology Centers, and Others)

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Abstracts

The US Fundus Camera market was valued at US\$ 106.72 million in 2022 and is projected to reach US\$ 142.07 million by 2028; it is estimated to register a CAGR of 5.0% from 2023 to 2028. An increase in diabetic retinopathy screening procedures and launches of innovative products are among the factors contributing to the growing fundus camera market size. However, incorrect clinical diagnosis due to distorted fundus photography hinders the growth of the fundus camera market.

The fundus camera is an instrument used for fundus photography. Fundus photography captures images of the retina, optic nerve head, macula, retinal blood vessels, choroid, and vitreous. Fundus photography impacts the detection and screening of various causes of treatable and preventable blindness, notably diabetic retinopathy, age-related macular degeneration, glaucoma, and retinopathy of prematurity. A fundus or retinal camera is a specialized low-power microscope with an attached camera designed to photograph the eye's interior surface, including the retina, retinal vasculature, optic disc, macula, and posterior pole.

AI Integration with Fundoscopy is the Trend for the Fundus Camera Market

An AI-based diagnosis system that uses color fundus photographs has exhibited optimal sensitivity and specificity for diabetic retinopathy screening. In China, the Artificial Intelligent Ophthalmology Group under the Intelligent Medicine Special Committee of the China Medicine Education Association has drafted and adopted guidelines for “Artificial Intelligent Diabetic Retinopathy Screening System Based on Fundus Photography” to support the incorporation of a unified standard for AI-assisted DR screening, promote the use of AI diagnostic systems in clinical practices, and improve the levels of diabetic retinopathy diagnosis and treatment. The group has also defined specifications and recommendations for AI-assisted diabetic retinopathy screening platforms based on fundus photographs by considering system hardware parameters, equipment configuration, data collection and standards, database establishment, AI algorithm requirements, content and format of an AI screening report, and AI screening follow-up plan.

Thus, with ongoing efforts to explore the capabilities of AI-assisted diabetic retinopathy diagnosis based on fundus images, the integration of AI with fundoscopy is likely to emerge as a significant trend in the US fundus camera market in the future.

Segmental Analysis

Type-Based Insights

Based on type, the market is segmented into mydriatic fundus camera, non-mydriatic fundus camera, hybrid fundus camera, and ROP fundus camera. The mydriatic fundus camera segment held a larger market share in 2022 and is anticipated to register a higher CAGR in the market during the forecast period. Technical advancement and continuous innovation in the fundoscopic examination have accelerated the demand for non-mydriatic fundus photography.

Portability-Based Insights

Based on portability offering, the fundus camera market is bifurcated into tabletop and handheld. The tabletop segment is anticipated to register the highest CAGR during the forecast period mainly due to the advantages of these cameras, as they offer more patient-friendly photography of the fundus by eliminating the use of bright lights and dilating drops.

Application Type-Based Insights

Based on application, the fundus camera market is divided into diabetic retinopathy, age-related macular degeneration, retinal vascular disorders, and others. The diabetic retinopathy segment held the largest market share in 2022. However, age-related macular degeneration segment is anticipated to register the higher CAGR in the market during the forecast period. Diabetic retinopathy is one of the three major microvascular complications associated with diabetes mellitus. Reports reveal that 90% of blindness is associated with diabetic retinopathy, and major success will be achieved through proper screening guidelines through the utility of a fundus camera.

End User-Based Insights

Based on end user, the endoscopy procedure market is segregated as hospitals, ophthalmology centers, and others. The hospitals segment held the largest market share in 2022. The hospitals segment is anticipated to register the higher CAGR in the market during the forecast period due to the launch of several innovative products for maximum hospital utilization. The ophthalmology centers are predicted to be the fastest-growing due to increased acceptance by optometrists for primary eye care and the attendance of well-equipped ophthalmic centers in developing countries.

A few of the major primary and secondary sources referred to while preparing the report on the US Fundus Camera market are the American Academy of Ophthalmology and National Institute of Diabetes and Digestive and Kidney Diseases, among others.

Contents

1. INTRODUCTION

- 1.1 Scope of the Study
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 US Fundus Camera Market – by Type
 - 1.3.2 US Fundus Camera Market – by Portability
 - 1.3.3 US Fundus Camera Market – by Application
 - 1.3.4 US Fundus Camera Market – by End User

2. US FUNDUS CAMERA MARKET – KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. FUNDUS CAMERA MARKET – MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Expert's Opinion

5. FUNDUS CAMERA MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increase in Diabetic Retinopathy Screening Procedures
 - 5.1.1.1 Launches of Innovative Products
- 5.2 Market Restraints
 - 5.2.1 Incorrect Clinical Diagnosis Due to Distorted Fundus Photography
- 5.3 Market Opportunities
 - 5.3.1 Fundoscopy with Smartphones
- 5.4 Future Trends
 - 5.4.1 AI Integration with Fundoscopy
- 5.5 Impact Analysis

6. US FUNDUS CAMERA MARKET ANALYSIS

6.1 US Fundus Camera Market Revenue Forecast and Analysis

6.1.1 Market Positioning of Key Players in US Fundus Camera Market

7. US FUNDUS CAMERA MARKET ANALYSIS – BY TYPE

7.1 Overview

7.2 Mydriatic Fundus Camera

7.2.1 Overview

7.2.2 Mydriatic Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

7.3 Non-Mydriatic Fundus Camera

7.3.1 Overview

7.3.2 Non-Mydriatic Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

7.4 Hybrid Fundus Camera

7.4.1 Overview

7.4.2 Hybrid Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

7.5 ROP Fundus Camera

7.5.1 Overview

7.5.2 ROP Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

8. US FUNDUS CAMERA MARKET ANALYSIS – BY PORTABILITY

8.1 Overview

8.2 Handheld

8.2.1 Overview

8.2.2 Handheld: US Fundus Camera Market– Revenue and Forecast to 2028 (US\$ Million)

8.3 Tabletop

8.3.1 Overview

8.3.2 Tabletop: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

9. US FUNDUS CAMERA MARKET ANALYSIS – BY APPLICATION

9.1 Overview

9.2 Diabetic Retinopathy

9.2.1 Overview

9.2.2 Diabetic Retinopathy: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

9.3 Age-Related Macular Degeneration

9.3.1 Overview

9.3.2 Age-Related Macular Degeneration: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Retinal Vascular Disorders

9.4.1 Overview

9.4.2 Retinal Vascular Disorders: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Others

9.5.1 Overview

9.5.2 Others: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

10. US FUNDUS CAMERA MARKET ANALYSIS – BY END USER

10.1 Overview

10.2 Hospitals

10.2.1 Overview

10.2.2 Hospitals: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

10.3 Ophthalmology Centers

10.3.1 Overview

10.3.2 Ophthalmology Centers: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

10.4 Others

10.4.1 Overview

10.4.2 Others: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

11. US FUNDUS CAMERA MARKET

11.1 Overview

11.1.1 US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

- 11.1.1.1 US: Fundus Camera Market, by Type, 2019–2028 (USD Million)
- 11.1.1.2 US: Fundus Camera Market, by Portability, 2019–2028 (USD Million)
- 11.1.1.3 US: Fundus Camera Market, by Application, 2019–2028 (USD Million)
- 11.1.1.4 US: Fundus Camera Market, by End User, 2019–2028 (USD Million)

12. US FUNDUS CAMERA MARKET: IMPACT ASSESSMENT OF COVID-19 PANDEMIC

- 12.1 Impact Analysis of COVID-19 Pandemic on US Fundus Camera Market

13. INDUSTRY LANDSCAPE

- 13.1 Overview
- 13.2 Growth Strategies Done by the Companies in the Market, (%)
- 13.3 Organic Developments
 - 13.3.1 Overview
- 13.4 Inorganic Developments
 - 13.4.1 Overview

14. COMPANY PROFILES

- 14.1 Nikon Corp
 - 14.1.1 Key Facts
 - 14.1.2 Business Description
 - 14.1.3 Products and Services
 - 14.1.4 Financial Overview
 - 14.1.5 SWOT Analysis
 - 14.1.6 Key Developments
- 14.2 Topcon Corp
 - 14.2.1 Key Facts
 - 14.2.2 Business Description
 - 14.2.3 Products and Services
 - 14.2.4 Financial Overview
 - 14.2.5 SWOT Analysis
 - 14.2.6 Key Developments
- 14.3 NIDEK CO LTD
 - 14.3.1 Key Facts
 - 14.3.2 Business Description
 - 14.3.3 Products and Services

- 14.3.4 Financial Overview
- 14.3.5 SWOT Analysis
- 14.3.6 Key Developments
- 14.4 Canon Inc
 - 14.4.1 Key Facts
 - 14.4.2 Business Description
 - 14.4.3 Products and Services
 - 14.4.4 Financial Overview
 - 14.4.5 SWOT Analysis
 - 14.4.6 Key Developments
- 14.5 Carl Zeiss AG
 - 14.5.1 Key Facts
 - 14.5.2 Business Description
 - 14.5.3 Products and Services
 - 14.5.4 Financial Overview
 - 14.5.5 SWOT Analysis
 - 14.5.6 Key Developments
- 14.6 Visionix USA Inc
 - 14.6.1 Key Facts
 - 14.6.2 Business Description
 - 14.6.3 Products and Services
 - 14.6.4 Financial Overview
 - 14.6.5 SWOT Analysis
 - 14.6.6 Key Developments
- 14.7 Kowa Co Ltd
 - 14.7.1 Key Facts
 - 14.7.2 Business Description
 - 14.7.3 Products and Services
 - 14.7.4 Financial Overview
 - 14.7.5 SWOT Analysis
 - 14.7.6 Key Developments
- 14.8 CenterVue SpA
 - 14.8.1 Key Facts
 - 14.8.2 Business Description
 - 14.8.3 Products and Services
 - 14.8.4 Financial Overview
 - 14.8.5 SWOT Analysis
 - 14.8.6 Key Developments
- 14.9 Volk Optical Inc

- 14.9.1 Key Facts
- 14.9.2 Business Description
- 14.9.3 Products and Services
- 14.9.4 Financial Overview
- 14.9.5 SWOT Analysis
- 14.9.6 Key Developments
- 14.10 Digital Eye Center
- 14.10.1 Key Facts
- 14.10.2 Business Description
- 14.10.3 Products and Services
- 14.10.4 Financial Overview
- 14.10.5 SWOT Analysis
- 14.10.6 Key Developments

15. APPENDIX

- 15.1 About The Insight Partners
- 15.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. US Fundus Camera Market, by Type– Revenue and Forecast to 2028 (USD Million)

Table 2. US Fundus Camera Market, by Portability – Revenue and Forecast to 2028 (USD Million)

Table 3. US Fundus Camera Market, by Application – Revenue and Forecast to 2028 (USD Million)

Table 4. US Fundus Camera Market, by End User – Revenue and Forecast to 2028 (USD Million)

Table 5. Organic Developments Done by Companies

Table 6. Inorganic Developments Done by Companies

Table 7. Glossary of Terms

List Of Figures

LIST OF FIGURES

Figure 1. Fundus Camera Market Segmentation

Figure 2. US Fundus Camera Market Overview

Figure 3. Non-Mydriatic Fundus Cameras Segment Held Largest Share Under Type Segment in Fundus Camera Market

Figure 4. Experts' Opinion

Figure 5. US Fundus Camera Market: Impact Analysis of Drivers and Restraints

Figure 6. US Fundus Camera Market – Revenue Forecast and Analysis – 2020–2028

Figure 7. US Fundus Camera Market, by Product, 2022 & 2028 (%)

Figure 8. Mydriatic Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 9. Non-Mydriatic Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 10. Secondary Lymphedema: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 11. ROP Fundus Camera: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 12. US Fundus Camera Market, by Portability, 2022 & 2028 (%)

Figure 13. Handheld: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 14. Tabletop: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 15. US Fundus Camera Market, by Application, 2022 & 2028 (%)

Figure 16. Diabetic Retinopathy: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 17. Age-Related Macular Degeneration: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 18. Retinal Vascular Disorders: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 19. Others: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 20. US Fundus Camera Market, by End User, 2022 & 2028 (%)

Figure 21. Hospitals: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 22. Ophthalmology Centers: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 23. Others: US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 24. US Fundus Camera Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 25. Impact of COVID-19 Pandemic in the US Market

Figure 26. Growth Strategies Done by the Companies in the Market, (%)

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