

Fundus Camera Market Size 2024 Diagnostic Applications, and Growth Opportunities in Ophthalmology and Optometry

fundus camera that is used to photograph the interior surface of the eye, including the retina, retinal vasculature, optic disc, macula, and posterior pole

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/EINPresswire.com/ -- Market Overview:



Fundus cameras are optical medical devices used to examine the interior surface of the eye, known as the fundus. They are essential for retina examination and help observe any changes, signs or risk of eye diseases.

Market Dynamics:

The fundus camera market is expected to witness significant growth over the forecast period, owing to the increasing prevalence of diabetic retinopathy and age-related macular degeneration (AMD). According to World Health Organization (WHO), the number of people with diabetic retinopathy to rise from 126.6 million in 2021 to 191.0 million by 2030. This wide patient pool is likely to drive more demand for fundus cameras, facilitating early diagnosis and treatment. Additionally, growing geriatric population, who are more prone to AMD, will further augment the market value of fundus cameras during the forecast period from 2024-2031.

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List of TOP Players in Market Report are: -

- Carl Zeiss AG
- Hoya Corporation
- Canon Inc.

- Nidek Co., Ltd.,
- Topcon Corporation
- Intelligent Retinal Imaging Systems Inc.
- Kowa Company Ltd.
- Optomed Oy (Ltd.)
- Vision Equipment Inc.
- Clarity Medical Systems Inc.
- Medimaging Integrated Solution Inc.
- S4OPTIK LLC.
- Shenzhen Thondar Technology Co., Ltd.,
- CenterVue SpA

Note: Major Players are sorted in no particular order.

Market Detailed Segmentation:

By Product Type:

- Mydriatic Fundus Cameras
- Non Retractable Fundus Cameras
- Hybrid Fundus Cameras
- Retinopathy of Prematurity (ROP) Fundus Cameras

By Modality:

- Stationary/Tabletop
- Mobile

By End User:

- Hospitals
- Ophthalmology Clinics
- Ophthalmic and Optometrist Offices
- Others (Research Centers, Academic Institutes, etc.)

Increasing prevalence of retinal diseases driving Fundus Camera Market growth

The prevalence of various retinal diseases such as diabetic retinopathy, age-related macular degeneration, and retinal vein occlusion has seen a significant rise globally. As per estimates by WHO, diabetic retinopathy alone affects over 93 million people worldwide and is a major cause of blindness. Fundus cameras play a vital role in early detection, screening, and monitoring of progression of retinal diseases. The ability of fundus cameras to non-invasively capture high-quality images of the retina allows ophthalmologists to diagnose retinal conditions in the early

stages when treatment options are most effective. This has significantly increased the demand for fundus cameras from hospitals, ophthalmology clinics, and eye care centers for retinal screening and examination purposes.

Costly fundus cameras limiting widespread adoption

While the clinical benefits of fundus cameras are well-established, their high costs have restricted their adoption, especially in developing regions and low-resource settings. A standard floor-model fundus camera can cost anywhere between \$20,000 to \$50,000 depending on features and manufacturers. The steep pricing is a major barrier for small ophthalmology practices, community health centers, and hospitals in developing countries that operate with limited healthcare budgets. Additionally, requirements of frequent upgrades due to rapid technological advancements add to the total cost of ownership. Unless viable low-cost alternatives or financing options are developed, the high capital investment requirements will continue posing a challenge for widespread adoption of fundus cameras.

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Portable fundus cameras opening new growth avenues

In recent years, there has been significant innovation in the development of portable fundus cameras that are more affordable and convenient alternatives to conventional desktop models. These compact, lightweight, and standalone fundus cameras eliminate the need for additional expensive infrastructure. Their portability allows for retinal examination at the point-of-care such as patient homes, rural health camps, and even remotely through telemedicine. This has enabled access to retinal screening in remote areas and emerging markets lacking specialized eye care facilities. It is estimated that the portable fundus camera market will witness the fastest growth during the forecast period. As new players enter with value-engineered products, portable fundus cameras will play a key role in unlocking untapped growth opportunities.

Advent of tele-ophthalmology and AI driving newer applications

Advancements in connectivity and artificial intelligence are finding new applications in retinal imaging and widening the scope of fundus cameras. Tele-ophthalmology uses fundus images captured through remote cameras for virtual consultations, expert opinions on diagnosis, and treatment monitoring. AI and machine learning algorithms can analyze large databases of retinal images to detect diseases, track progression over time, and assist less-specialized practitioners. These technologies allow pooling of retina expertise and expanding access to quality eye care. With further improvements, fully automated analysis of fundus photographs may help large-scale screening programs. Such newer applications of fundus cameras are expected to transform retinal care delivery models globally in the coming years.

Furthermore, the years considered for the study are as follows:

Historical data - 2016-2022

The base year for estimation - is 2022

Estimated Year - 2024

Forecast period** - 2024 to 2031

This Fundus Camera Market Research/Analysis Report Contains Answers to your following Questions:

- What are the current global trends in the Fundus Camera market, and will the market experience an increase or decrease in demand in the upcoming years?
- What is the expected demand for various product types within the Fundus Camera market, and what are the emerging Market applications and trends?
- What are the projections for the global Fundus Camera Market in terms of capacity, production, production value, cost, profit, market share, supply, consumption, import, and export?
- How will strategic developments shape the Market trajectory in the medium to long term?
- What factors contribute to the final price of Fundus Camera , and what are the raw materials used in its manufacturing?
- What is the market's growth potential, particularly with the increasing adoption of Fundus Camera in mining?
- What is the current and 2022 value of the global market, and who are the leading companies in this market?
- What recent Market trends can be leveraged to create additional revenue streams?
- What entry strategies, economic impact mitigation measures, and marketing channels should be considered for the Fundus Camera Market?

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