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Global Smartphone-based Fundus Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smartphone-based Fundus Camera market size is expected to reach $ 39.36 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

In 2025, the global production of smartphone-based fundus camera reached 4,500 units, with an average price of US$4,600 per unit.

A smartphone-based fundus camera is a retinal imaging system that uses a smartphone as the compute, display, connectivity, and often part of the imaging pipeline, while a dedicated optical/illumination attachment (or handheld head) provides the ophthalmic-grade optics needed to capture posterior-segment images. Compared with conventional tabletop fundus cameras, its defining characteristics are portability and workflow flexibility (point-of-care capture), lower space and installation requirements, and a software-led user experience?guided alignment, auto-capture, image enhancement (e.g., HDR, red-free/montage), and rapid report generation. In many commercial implementations, the value proposition is not only ?taking an image,? but enabling screening at scale via cloud workflows (central review, storage, routing) and standardized data exchange (e.g., DICOM/FTP/SMB-style integration in enterprise deployments), which makes it deployable beyond specialist ophthalmology rooms.

In terms of geography, smartphone-based fundus cameras tend to be most adaptable in countries/regions where there is a strong need for distributed screening capacity and where portability materially reduces access barriers?typically emerging markets and large, geographically dispersed health systems, as well as mature markets running primary-care screening programs (diabetes/occupational health) and tele-ophthalmology pathways. Practically, the best-fit regions are those with (a) meaningful

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gaps in specialist coverage, (b) high chronic-disease screening demand, and (c) adequate mobile connectivity or offline-first workflows.

The market for smartphone-based fundus cameras has been expanding rapidly due to the increasing prevalence of eye diseases such as diabetic retinopathy, glaucoma, and macular degeneration, coupled with the growing adoption of telemedicine and remote patient monitoring solutions.

Public-health demand and screening expansion (country/region need) ? Growth is anchored in rising chronic-disease screening requirements (notably diabetes ? DR), plus aging-driven retinal disease burden. Portable, smartphone-based fundus imaging is repeatedly positioned as delegable and telemedicine-friendly, enabling screening beyond specialist clinics and improving coverage in primary care and community settings.

Operational economics: lower footprint + faster deployment ? Compared with tabletop imaging, smartphone-based systems reduce space/installation needs and can be deployed at point-of-care. That makes them attractive for multi-site operators, outreach programs, and under-resourced geographies where capex, infrastructure, and specialist time are constrained.

Software monetization and workflow ?platformization? ? Growth increasingly comes from the software layer: guided capture, image enhancement, cloud workflows, and integration into enterprise systems. This creates recurring revenue opportunities (storage, workflow licenses, analytics/AI modules) and raises switching costs.

Regulatory milestones unlock larger tenders ? When products obtain clearances/registrations, the addressable market expands into hospital procurement and screening tenders. The space continues to see regulatory activity for portable/non-mydriatic cameras, which can accelerate enterprise adoption.

AI-enabled triage as a scaling lever ? Evidence supports AI + smartphone fundus photography for screening use cases, enabling faster triage and reducing specialist bottlenecks?particularly relevant where ophthalmologist density is low.

This report studies the global Smartphone-based Fundus Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for

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Smartphone-based Fundus Camera and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Smartphone-based Fundus Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smartphone-based Fundus Camera total production and demand, 2021-2032, (Units)
Global Smartphone-based Fundus Camera total production value, 2021-2032, (USD Million)
Global Smartphone-based Fundus Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Smartphone-based Fundus Camera consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Smartphone-based Fundus Camera domestic production, consumption, key domestic manufacturers and share
Global Smartphone-based Fundus Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Smartphone-based Fundus Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Smartphone-based Fundus Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Smartphone-based Fundus Camera market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Remidio, PHELCOM, oDocs Eye Care Limited, Volk Optical, LabSD, Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Smartphone-based Fundus Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by

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manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Smartphone-based Fundus Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smartphone-based Fundus Camera Market, Segmentation by Type:

Non-mydriatic Fundus Camera

Mydriatic Fundus Camera

Global Smartphone-based Fundus Camera Market, Segmentation by System:

Android

iOS

Global Smartphone-based Fundus Camera Market, Segmentation by Focus Adjustment:

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Manual Focus

Auto Focus

Global Smartphone-based Fundus Camera Market, Segmentation by Application:

Hospital

Clinic

Physical Examination Center

Others

Companies Profiled:

Remidio

PHELCOM

oDocs Eye Care Limited

Volk Optical

LabSD, Inc

Key Questions Answered:

1. How big is the global Smartphone-based Fundus Camera market?
2. What is the demand of the global Smartphone-based Fundus Camera market?
3. What is the year over year growth of the global Smartphone-based Fundus Camera market?
4. What is the production and production value of the global Smartphone-based Fundus Camera market?
5. Who are the key producers in the global Smartphone-based Fundus Camera market?
6. What are the growth factors driving the market demand?

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