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Dental Intraoral Photostimulable Phosphor Systems Market Forecasts to 2032 – Global Analysis By Product Type (Scanners, Accessories, and Other Product Types), Application, End Users and By Geography

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Abstracts

According to Stratistics MRC, the Global Dental Intraoral Photostimulable Phosphor Systems Market is accounted for $71.21 million in 2025 and is expected to reach $125.25 million by 2032 growing at a CAGR of 8.4% during the forecast period. Dental Intraoral Photostimulable Phosphor (PSP) Systems are digital imaging technologies used in dentistry to capture intraoral radiographs. These systems use reusable phosphor plates that store X-ray energy when exposed. After exposure, the plates are scanned by a special device that converts the stored energy into digital images. PSP systems offer high-quality images with lower radiation doses compared to traditional film, enhancing diagnostic accuracy and streamlining dental workflows.

According to WHO, in India, the prevalence of severe periodontal disease in people older than 15 years of age was 21.8% in 2019.

Market Dynamics:

Driver:

Increasing prevalence of dental diseases

The rising incidence of dental ailments such as cavities, gum diseases, and tooth decay is driving the demand for advanced diagnostic solutions. As oral health awareness grows, more patients are seeking early diagnosis and treatment for dental issues. The

adoption of intraoral photostimulable phosphor systems aids in improving dental imaging accuracy and efficiency. Dental clinics and hospitals are increasingly integrating these systems to enhance workflow and patient experience. Additionally, aging populations and lifestyle habits contribute to the increased demand for precise imaging solutions.

Restraint:

Need for a separate scanning step

Unlike direct digital radiography, photostimulable phosphor systems require an intermediate scanning step, which can increase processing time. Dentists and technicians must digitize images manually, leading to potential workflow inefficiencies. This additional step may deter clinics seeking instant imaging solutions, impacting adoption rates. Furthermore, technical challenges such as image degradation and handling complexities pose hurdles to seamless operation. Cost constraints also play a role, as additional equipment and maintenance are required.

Opportunity:

Growing adoption of digital dentistry

The shift towards paperless record-keeping and efficient image storage is driving interest in digital imaging techniques. Advances in software integration allow seamless workflow and improved patient data management. The ability to enhance image quality through post-processing features is another advantage encouraging adoption. Furthermore, the growing number of dental clinics and hospitals investing in digital tools strengthens market potential. With continued innovations in AI-driven imaging analysis, the market for intraoral photostimulable phosphor systems is poised for significant growth.

Threat:

Technical issues and software compatibility

Many clinics face difficulties integrating these systems with electronic health records and imaging software. Technical malfunctions, such as image distortion or processing errors, can further disrupt workflow. Additionally, frequent software updates and licensing costs may create financial barriers for dental practices. The reliance on

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specific phosphor plate technologies limits cross-platform functionality, adding complexity. Addressing these compatibility concerns through standardized systems and enhanced support will be vital for broader market acceptance.

Covid-19 Impact

The COVID-19 pandemic had a mixed impact on the Dental Intraoral Photostimulable Phosphor Systems Market. Initially, disruptions in dental practices and elective procedures slowed adoption, affecting overall market growth. However, the pandemic highlighted the importance of infection control and efficient imaging technologies in dental care settings. Investment in advanced imaging technologies, including phosphor-based systems, gained momentum post-pandemic. The need for optimized dental diagnostics and faster patient turnover further boosted adoption.

The scanners segment is expected to be the largest during the forecast period

The scanners segment is expected to account for the largest market share during the forecast period, due to its essential role in digitizing images captured on phosphor plates. As dental professionals seek improved image quality and efficiency, advanced scanning solutions are becoming a necessity. The integration of high-resolution scanners in clinics and hospitals supports faster diagnosis and patient care. The demand for cost-effective, reliable imaging solutions continues to propel the growth of this segment.

The diagnostic imaging segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the diagnostic imaging segment is predicted to witness the highest growth rate, due to its expanding role in improving early disease detection. The need for precise and high-quality imaging solutions is driving demand across dental clinics and hospitals. Enhanced image clarity and diagnostic accuracy offered by photostimulable phosphor systems contribute to the segment’s rapid expansion. Additionally, increased investments in dental infrastructure and technology fuel adoption in diagnostic centres.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to the region's growing dental industry and increasing awareness of oral

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healthcare. Rising disposable income and improved healthcare infrastructure in countries like China, India, and Japan are contributing to market expansion. Government initiatives supporting digital healthcare adoption are further driving demand for advanced imaging systems. The presence of leading dental equipment manufacturers ensures easy access to innovative technologies.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to advancements in dental technology and growing adoption of digital imaging solutions. The United States, in particular, is experiencing a surge in demand for intraoral photostimulable phosphor systems due to its strong focus on precision diagnostics. Increased investment in AI-driven imaging and software integration is further boosting market growth. Dental professionals in the region are embracing modern imaging techniques for enhanced patient care and treatment planning.

Key players in the market

Some of the key players profiled in the Dental Intraoral Photostimulable Phosphor Systems Market include Carestream Dental, Dentsply Sirona, Acteon Group, Air Techniques, Inc., Owandy Radiology, MyRay, Planmeca Oy, Villa Sistemi Medicali, Suni Medical Imaging, Digirex Medical Systems, FONA Dental, NewTom, Vatech Co., Ltd., Genoray Co., Ltd., and J. Morita Mfg. Corp.

Key Developments:

In March 2025, Carestream Dental AI-driven software and a new collaboration with Straumann that will empower clinicians' workflows through efficient integration of Carestream Dental imaging with the Straumann digital ecosystem.* These developments are set to enhance dental practices by expanding treatment options, creating more efficient workflows for practitioners and improving connectivity with a larger dental network.

In March 2025, Dentsply Sirona, the world's largest diversified manufacturer of professional dental products and technologies, is partnering with the FDI World Dental Federation (FDI) to raise awareness about the importance of oral health and to rally action on World Oral Health Day (WOHD).

Products Covered:

Scanners

Accessories

Other Product Types

Applications Covered:

Diagnostic Imaging

Endodontics

Implantology

Oral and Maxillofacial Surgery

Orthodontics

Periodontology

Other Applications

End Users Covered:

Solo Practices

DSO/Group Practices

Hospitals

Research Institutions

Other End Users

Regions Covered:

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North America

- US
- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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