Optical Coherence Tomography (OCT) For Healthcare & Life Science Market Report Covers Trends, Segments & Regional Growth

TBRC's Optical Coherence Tomography (OCT) For Healthcare And Life Science Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

The Business Research Company

LONDON, GREATER LONDON, UNITED KINGDOM, August 20, 2026 /EINPresswire.com/ -- "The optical coherence tomography (OCT) technology has become a pivotal tool in healthcare and life sciences, transforming diagnostic imaging with its high-resolution capabilities. As demand for precise, non-invasive imaging rises, the OCT market is poised for significant expansion in the coming years. Let’s explore the current market size, growth drivers, regional trends, and future prospects that define this evolving sector.

Steady Expansion of the Optical Coherence Tomography Market Size
The optical coherence tomography market for healthcare and life sciences has experienced rapid growth recently. It is forecasted to increase from $2.26 billion in 2025 to $2.63 billion in 2026, reflecting a strong compound annual growth rate (CAGR) of 16.1%. This rise in value during the historical period is largely due to the growing prevalence of eye disorders, broader use of ophthalmic diagnostic tests, technological progress in optical imaging, expansion of specialty eye clinics, and early adoption for research purposes.

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Future Market Outlook Projects Continued Growth
Looking ahead, the OCT market is predicted to grow even more substantially, reaching $4.77 billion by 2030 at the same CAGR of 16.1%. This anticipated surge is driven by escalating demand for point-of-care diagnostics, increasing adoption in cardiology and dermatology, expansion of tele-ophthalmology services, rising investments toward imaging technology innovation, and a

stronger focus on early disease detection. Emerging market trends include the growing use of AI-assisted image analysis, heightened interest in high-resolution, non-invasive imaging, proliferation of portable and handheld OCT devices, widening applications beyond ophthalmology, and improved integration with digital health platforms.

What Optical Coherence Tomography Means for Healthcare and Life Science
Optical coherence tomography is a non-invasive imaging method that employs light waves to produce detailed cross-sectional views of tissue structures. It is primarily used in ophthalmology for retinal imaging and diagnosing various eye conditions but also serves other medical fields by providing precise tissue assessments. This technique delivers high-resolution images without the need for invasion, making it invaluable for diagnosing and monitoring a range of disorders.

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Rising Prevalence of Eye Diseases Fuels OCT Market Growth
One of the key factors propelling the OCT market is the increasing incidence of ocular diseases. These conditions affect the eyes and surrounding tissues and can lead to significant vision impairment or blindness. The rise is largely attributed to an aging global population and the higher rates of chronic illnesses such as diabetes. OCT technology offers detailed imaging of the retina and optic nerve, crucial for early diagnosis and ongoing monitoring of eye diseases. For example, according to the Review of Optometry, glaucoma affects approximately 80 million people worldwide, with open-angle glaucoma representing 95% of these cases. In the United States alone, over three million individuals currently live with glaucoma, and this number is expected to surpass 111 million globally by 2040. Such figures underline how the growing burden of ocular diseases continues to drive OCT market expansion.

Additional Factors Supporting OCT Market Growth
Beyond ocular disease prevalence, advancements in imaging technology and the expanding use of OCT in multiple medical specialties also support market growth. Increasing awareness about early disease detection and the convenience of point-of-care testing further enhance OCT adoption. The integration of AI to improve image accuracy and the development of user-friendly portable devices contribute to making OCT a versatile tool in modern healthcare.

Regional Market Dynamics in Optical Coherence Tomography
In terms of geographic distribution, North America accounted for the largest share of the OCT market in 2025. Meanwhile, the Asia-Pacific region is forecasted to be the fastest-growing market throughout the coming years. The comprehensive market assessment covers key areas such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a global perspective on growth opportunities and regional trends.

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