

Optical Coherence Tomography Market Report by Type (Handheld OCT Devices, Tabletop OCT Devices, and Others), Technology (Time Domain OCT (TDOCT), Frequency Domain OCT (FD-OCT)), Application (Dermatology, Ophthalmology, Cardiovascular, Oncology, and Others), and Region 2024-2032

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Abstracts

The global optical coherence tomography market size reached US\$ 1.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.2 Billion by 2032, exhibiting a growth rate (CAGR) of 12.2% during 2024-2032.

Optical coherence tomography (OCT) refers to a non-invasive imaging technique used to obtain high-resolution cross-sectional images of the retina. Tabletop and handheld are some of the commonly available types of OCT devices. They consist of an interferometer and short-pulse lasers with low coherence and a broad bandwidth light source. OCT is widely used in various healthcare domains, such as ophthalmology, oncology, cardiovascular, and dermatology. It is also used to detect the retinal thickness and aids in the early detection and diagnosis of retinal diseases and conditions. It also provides precise imaging of neointimal stent strut coverage in follow-up exams and assists in the easier evaluation of stent strut apposition against the vessel wall.

Optical Coherence Tomography Market Trends:

The increasing incidences of retinal and choroidal disorders and visual impairments across the globe are creating a positive outlook for the market. Optical coherence tomography is widely used by an ophthalmologist for screening and diagnosing retinal-related disorders, including tear and detachment, diabetic retinopathy, macular hole, and retinitis pigmentosa. Apart from this, various product innovations, such as the

introduction of higher-performing devices that assist in enhancing accuracy and improving the overall quality of eye care, are providing an impetus to the market growth. Additionally, the increasing geriatric population and rising instances of cancer are also favoring the market growth. Optical coherence tomography aids in early cancer detection and provides information on nuclear-to-cytoplasmic ratio, nuclear size and shape, and the organization and structure of glands. Other factors, including the increasing demand for early diagnosis methods, widespread product utilization in drug delivery, and significant improvements in healthcare technologies, are anticipated to drive the market further toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global optical coherence tomography market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, technology and application.

Breakup by Type:

- Handheld OCT Devices
- Tabletop OCT Devices
- Others

Breakup by Technology:

- Time Domain OCT (TDOCT)
- Frequency Domain OCT (FD-OCT)

Breakup by Application:

- Dermatology
- Ophthalmology
- Cardiovascular
- Oncology
- Others

Breakup by Region:

- North America
- United States

Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Abbott Laboratories, Agfa-Gevaert N.V., Agiltron Inc., Carl Zeiss AG, Haag-Streit Group, Heidelberg Engineering Inc., Leica Microsystems GmbH (Danaher Corporation), Novacam Technologies Inc., OPTOPOL Technology Sp. z o.o., Terumo Corporation, Thorlabs Inc. and Topcon Corporation.

Key Questions Answered in This Report

1. What was the size of the global optical coherence tomography market in 2023?
2. What is the expected growth rate of the global optical coherence tomography market during 2024-2032?
3. What has been the impact of COVID-19 on the global optical coherence tomography market?
4. What are the key factors driving the global optical coherence tomography market?
5. What is the breakup of the global optical coherence tomography market based on the

type?

6. What is the breakup of the global optical coherence tomography market based on the application?
7. What are the key regions in the global optical coherence tomography market?
8. Who are the key players/companies in the global optical coherence tomography market?

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