

Optical Coherence Tomography Market

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Abstracts

Optical Coherence Tomography Market: By Technology (Time Domain OCT (TD-OCT), Frequency Domain OCT (FD-OCT), Spatial Encoded Frequency Domain OCT), By Type (Catheter Based OCT Devices, Doppler OCT Devices, Handheld OCT Devices, Table-top OCT Devices), By Application (Clinical {Ophthalmology, Cardiology, Oncology, Dermatology, Dentistry}, Industrial {Industrial Quality Control, Non Destructive Testing, Others}), By Scanning speed (400 A-scans/sec, 4000 A-scans/sec, 20000 A-scans/sec, 32000 A-scans/sec, 40000 A-scans/sec, 70000 A-scans/sec, 80000 A-scans/sec, 100000 A-scans/sec, 250000 A-scans/sec), And Region – Global Analysis of Market Size, Share & Trends For 2021–2022 And Forecasts To 2032

PRODUCT OVERVIEW:

The Optical Coherence Tomography Market was valued at 1.28 billion USD in 2021 and is expected to reach USD 4.5 billion by 2032, increasing at a CAGR of 12% during the forecast period, i.e., 2022-2032

Optical Coherence Tomography is a modern technique used for cross-sectional imaging with high resolution. Optical Coherence Tomography is a non-invasive imaging method which utilizes coherent light for capturing 2D and 3D pictures. Imaging with high depth of penetration and high resolution are the characteristics of optical coherence tomography. This method is use for examining transparent tissues and to analyse the retina condition by providing images of tissue in real time. This method is used in optical biopsy and assist in reducing the sampling errors involved with biopsy.

MARKET HIGHLIGHTS

Optical Coherence Tomography Market is expected to project a CAGR of 12% during the forecast period

The Optical Coherence Tomography Market was valued at 1.28 billion USD in 2021 and is expected to reach USD 4.5 billion by 2032, increasing at a CAGR of 12% during the forecast period, i.e., 2022-2032 owing to the factors like increasing geriatric population who require OCT in drug delivery. The rising advantages in developing economies by increasing the investments on for technical advancements is expected to drive the growth of optical coherence tomography (OCT) market.

OPTICAL COHERENCE TOMOGRAPHY MARKET: SEGMENTS

Frequency Domain Optical Coherence Tomography (FD-OCT) segment is expected to dominate in the forecast period

Optical Coherence Tomography Market is classified based on the Technology into Time Domain OCT (TDOCT), By Frequency Domain OCT (FD-OCT), Spatial Encoded Frequency Domain OCT. The Frequency Domain Optical Coherence Tomography (FD-OCT) segment dominated the market in 2021 and is also expected to dominate the market with high share during the forecast period. It works by measuring interference spectrum and so referred as Spectral-Domain OCT (SD-OCT) and is a traditional technique used for examining retina of eye.

Handheld OCT device type segment is expected to dominate in the forecast period

MARKET DYNAMICS:

Growth Drivers

Rising Number Of Patients With Eye Disorders Will Propel The Market Growth

Advancements In Healthcare Sector Is Expected To Boost The Market Growth

Restraint

High Cost Of Optical Coherence Tomography (OCT) Will Restrain The Market Growth

OPTICAL COHERENCE TOMOGRAPHY MARKET:

Adtell Integration

ADVA Optical Networking

Adtran, Inc.

Broadcom

Ciena Corporation

Logix Fiber Networks

Corning Incorporated

OptiLayer GmbH

Cisco Systems, Inc

Fujitsu Optical Components Ltd

Lumentum Operations LLC

Reliance Communications

Fiber Optic Services

Hamamatsu Photonics K.K.

Infinera Corporation

Other Prominent Players

OPTICAL COHERENCE TOMOGRAPHY MARKET: REGIONS

Optical Coherence Tomography Market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific and the Middle

East and Africa. Based on regional analysis, North America dominated the market in 2021 and is expected to dominate the market share in the global Optical Coherence Tomography market in the forecast period owing to the rising investments in R&D, increasing geriatric population and adoption of new products in the region.

Optical Coherence Tomography Market Segments:

By Technology

Time Domain OCT (TDOCT)

Frequency Domain OCT (FD-OCT)

Spatial Encoded Frequency Domain OCT

By Type

Catheter Based OCT Devices

Doppler OCT Devices

Handheld OCT Devices

Table-top OCT Devices

By Application

Clinical (Ophthalmology, Cardiology, Oncology, Dermatology, Dentistry)

Industrial (Industrial Quality Control, Non-Destructive Testing, Others)

By Scanning Speed

400 A-scans/sec

4000 A-scans/sec

20000 A-scans/sec

32000 A-scans/sec

40000 A-scans/sec

70000 A-scans/sec

80000 A-scans/sec

100000 A-scans/sec

250000 A-scans/sec

Reasons to Purchase this Report.

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry

with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

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