

Global Optoelectronic Market Size, Share, and Analysis, By Device Type (Image Sensors, Photovoltaic Cells, Light Emitting Diode (LEDs), Laser Diodes, Optocouplers, and others), By End-User (Information Technology, Consumer Electronics, Aerospace & Defense, Healthcare, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

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Abstracts

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PRODUCT OVERVIEW

Global Optoelectronic Market is projected to exhibit a Compound Annual Growth Rate (CAGR) of 10.1% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 30 billion and is projected to reach USD 86.3 billion by the completion of 2034.

Optoelectronics, also referred to as optronics, is a branch of electronics that works with instruments that sense, identify, and manipulate light. It includes gadgets that convert electrical signals into photon signals and back again. In optoelectronics, X-rays, gamma rays, and infrared rays are frequently used for various applications, such as in telecom

and healthcare. In addition, optoelectronics includes multiple components that are used in many different applications, ranging from everyday electronics to advanced industrial systems. Moreover, optoelectronic devices depend on semiconductors, which can conduct electricity at various levels. Besides, Gallium arsenide, Gallium nitride, Silicon, Germanium, and other substances are used in the production of optoelectronic components.

MARKET HIGHLIGHTS

Global optoelectronic market is expected to reach USD 86.3 billion during the forecast period, owing to the increasing need for advanced electronic and optoelectronic devices. The high usage of smartphones, tablets, and other personal gadgets has resulted in a greater demand for optoelectronics components such as LEDs, display panels, image sensors, and others. In addition, the increase in smart home technology and IoT devices is boosting the demand for optoelectronic devices & optical communication components. Optoelectronics components are used in the automotive sector for interior and exterior lighting, along with safety features such as advanced driver assistance systems (ADAS). Besides, optoelectronics is significant in healthcare for imaging and diagnostics, optical fibers, and photodetectors. Therefore, these elements are collectively responsible for the growth of the optoelectronics market.

Global Optoelectronic Market Segments:

By Device Type

Image Sensors

Photovoltaic Cells

LEDs

Laser Diodes

Optocouplers

Others

By End-User

Information technology

Consumer Electronics

Aerospace and Defense

Healthcare

Others

MARKET DYNAMICS

Growth Drivers

Rising Demand in the Healthcare Sector is Critical to Boosting the Market

Growing Technological Advancement Will Aid the Market Growth

Restraint

High Initial Investment Can Limit the Growth of the Global Optoelectronic Market

Key Players

General Electric Company

Panasonic Corporation

Sony Corporation

Texas Instruments

Samsung Electronics

Avago Technologies Ltd

OSRAM Licht AG

Dialight Corp.

OmniVision Technologies

SK Hynix Inc.

Broadcom

Synopsys

Rohm

Hamamatsu Photonics

TT Electronics plc

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

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

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

Contents

1. EXECUTIVE SUMMARY

- 1.1. Regional Market Share
- 1.2. Business Trends
- 1.3. Global Optoelectronic Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

2. RESEARCH METHODOLOGY

- 2.1. Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4. Primary Research
- 2.5. Secondary Research
 - 2.5.1. Paid Sources
 - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

3. MARKET CHARACTERISTICS

- 3.1. Market Definition
- 3.2. Global Optoelectronic Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

4. GLOBAL OPTOELECTRONIC MARKET – INDUSTRY INSIGHTS

- 4.1. Industry Segmentation
- 4.2. COVID-19 overview of world economy
- 4.3. Industry Ecosystem Channel Analysis
- 4.4. Innovation & Sustainability

5. MACROECONOMIC INDICATORS

6. RECENT DEVELOPMENTS

7.MARKET DYNAMICS

- 7.1. Introduction
- 7.2.Growth Drivers
- 7.3.Market Opportunities
- 7.4. Market Restraints
- 7.5.Market Trends

8. RISK ANALYSIS

9. MARKET ANALYSIS

- 9.1. Porter's Five Forces
- 9.2.PEST Analysis
 - 9.2.1. Political
 - 9.2.2.Economic
 - 9.2.3.Social
 - 9.2.4.Technological

10. GLOBAL OPTOELECTRONIC MARKET

- 10.1.Overview
- 10.2. Historical Analysis (2018-2022)
 - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

11.GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 11.1.Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
 - 11.3.1.By Device Type
 - 11.3.1.1. Image Sensors
 - 11.3.1.1.1. By Value (USD Million) 2024A-2034F
 - 11.3.1.1.2.Market Share (%) 2024A-2034F
 - 11.3.1.1.3.Y-o-Y Growth (%) 2024A-2034F
 - 11.3.1.2.Photovoltaic Cells
 - 11.3.1.2.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.2.2. Market Share (%) 2024A-2034F

- 11.3.1.2.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.3.LEDs
 - 11.3.1.3.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.3.2. Market Share (%) 2024A-2034F
 - 11.3.1.3.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.4.Laser Diodes
 - 11.3.1.4.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.4.2. Market Share (%) 2024A-2034F
 - 11.3.1.4.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.5.Optocouplers
 - 11.3.1.5.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.5.2. Market Share (%) 2024A-2034F
 - 11.3.1.5.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.6.Others
 - 11.3.1.6.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.6.2. Market Share (%) 2024A-2034F
 - 11.3.1.6.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.2. By End-User
 - 11.3.2.1.Information Technology
 - 11.3.2.1.1.By Value (USD Million) 2024A-2034F
 - 11.3.2.1.2. Market Share (%) 2024A-2034F
 - 11.3.2.1.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.2. Consumer Electronics
 - 11.3.2.2.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.2.2.Market Share (%) 2024A-2034F
 - 11.3.2.2.3.Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.3. Aerospace & Defense
 - 11.3.2.3.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.3.2.Market Share (%) 2024A-2034F
 - 11.3.2.3.3.Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.4. Healthcare
 - 11.3.2.4.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.4.2.Market Share (%) 2024A-2034F
 - 11.3.2.4.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.5. Others
 - 11.3.2.5.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.5.2.Market Share (%) 2024A-2034F
 - 11.3.2.5.3.Y-o-Y Growth (%) 2024A-2034F

12. NORTH AMERICA GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 12.1. Overview
- 12.2. Key Findings
- 12.3. Market Segmentation
 - 12.3.1. By Device Type
 - 12.3.2. By End-User
- 12.4. Country
 - 12.4.1. United States
 - 12.4.2. Canada

13. EUROPE GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 13.1. Overview
- 13.2. Key Findings
- 13.3. Market Segmentation
 - 13.3.1. By Device Type
 - 13.3.2. By End-User
- 13.4. Country
 - 13.4.1. Germany
 - 13.4.2. United Kingdom
 - 13.4.3. France
 - 13.4.4. Italy
 - 13.4.5. Spain
 - 13.4.6. Russia
 - 13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

14. ASIA-PACIFIC GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 14.1. Overview
- 14.2. Key Findings
- 14.3. Market Segmentation
 - 14.3.1. By Device Type
 - 14.3.2. By End-User
- 14.4. Country
 - 14.4.1. India

- 14.4.2.China
- 14.4.3. South Korea
- 14.4.4. Japan
- 14.4.5. Rest of APAC

15. MIDDLE EAST AND AFRICA GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 15.1.Overview
- 15.2. Key Findings
- 15.3. Market Segmentation
 - 15.3.1. By Device Type
 - 15.3.2.By End-User
- 15.4. Country
 - 15.4.1.Israel
 - 15.4.2.GCC
 - 15.4.3.North Africa
 - 15.4.4. South Africa
 - 15.4.5.Rest of Middle East and Africa

16. LATIN AMERICA GLOBAL OPTOELECTRONIC MARKET SIZE & FORECAST 2024A-2034F

- 16.1. Overview
- 16.2. Key Findings
- 16.3. Market Segmentation
 - 16.3.1. By Device Type
 - 16.3.2.By End-User
- 16.4. Country
 - 16.4.1.Mexico
 - 16.4.2.Brazil
 - 16.4.3.Rest of Latin America

17. COMPETITIVE LANDSCAPE

- 17.1. Company market share, 2023
- 17.2.Key player overview
- 17.3. Key stakeholders

18. COMPANY PROFILES

- 18.1. General Electric Company
 - 18.1.1. Company Overview
 - 18.1.2. Financial Overview
 - 18.1.3. Key Product; Analysis
 - 18.1.4. Company Assessment
 - 18.1.4.1. Product Portfolio
 - 18.1.4.2. Key Clients
 - 18.1.4.3. Market Share
 - 18.1.4.4. Recent News & Development (Last 3 Yrs.)
- 18.2. Panasonic Corporation
- 18.3. Sony Corporation
- 18.4. Texas Instruments
- 18.5. Samsung Electronics
- 18.6. Avago Technologies Ltd
- 18.7. OSRAM Licht AG
- 18.8. Dialight Corp
- 18.9. OmniVision Technologies
- 18.10. SK Hynix Inc.
- 18.11. Broadcom
- 18.12. Synopsys
- 18.13. Rohm
- 18.14. Hamamatsu Photonics
- 18.15. TT Electronics plc
- 18.16. Other Prominent Players

19. APPENDIX

20. CONSULTANT RECOMMENDATION

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Product name: Global Optoelectronic Market Size, Share, and Analysis, By Device Type (Image Sensors, Photovoltaic Cells, Light Emitting Diode (LEDs), Laser Diodes, Optocouplers, and others), By End-User (Information Technology, Consumer Electronics, Aerospace & Defense, Healthcare, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

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