

Global Optical Trapping System Market Growth 2024-2030

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Abstracts

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Optical Trapping, also known as Optical Tweezers (OT), is a technique that uses light scattering to hold an object in place. OT is based on a concept outlined by Arthur Ashkin in 1986 that later earned him the Nobel Prize in Physics 2018. When a laser beam is directed at a particle, cell, or other microscopic objects, the target's shape can cause a scattering of the beam. This scattering represents a change in momentum of the light, which in turn exerts a force on the target. This force traps the target in the focal point of the beam, allowing the microscopist to control the x, y and z position of the target with remarkable precision. And, as optical trapping typically uses near-infrared lasers with wavelengths beyond typical fluorescence wavelengths, this versatile technique can be used alongside a wide range of microscopy techniques, such as epi-fluorescence, confocal imaging, TIRF, FRET, single-molecule and super-resolution techniques.

The global Optical Trapping System market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of %from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Optical Trapping System Industry Forecast" looks at past sales and reviews total world Optical Trapping System sales in 2023, providing a comprehensive analysis by region and market sector of projected Optical Trapping System sales for 2024 through 2030. With Optical Trapping System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Optical Trapping System industry.

This Insight Report provides a comprehensive analysis of the global Optical Trapping

System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Optical Trapping System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Optical Trapping System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Optical Trapping System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Optical Trapping System.

United States market for Optical Trapping System is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Optical Trapping System is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Optical Trapping System is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Optical Trapping System players cover Elliot, ZEISS, BNS, JPK, IMPETUX, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Optical Trapping System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dual-beam

Single-beam

Segmentation by Application:

Cell Biology

Aerosol Area

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Elliot

ZEISS

BNS

JPk

IMPETUX

Aresis

PicoTwist

Bruker

Key Questions Addressed in this Report

What is the 10-year outlook for the global Optical Trapping System market?

What factors are driving Optical Trapping System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Optical Trapping System market opportunities vary by end market size?

How does Optical Trapping System break out by Type, by Application?

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