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Global Optically Contacted Zero-Order Waveplate Market Growth 2026-2032

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Abstracts

The global Optically Contacted Zero-Order Waveplate market size is predicted to grow from US$ 66.37 million in 2025 to US$ 91.43 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

An optically contacted zero-order waveplate is a precision optical polarization control component. It utilizes adhesive-free optical contact technology (optical bonding) to directly bond two thin quartz crystal sheets with a specific thickness difference and orthogonal optical axes. This design produces precise zero-order phase retardation, enabling precise control of the polarization state of the optical beam. Its core advantages lie in its extremely low sensitivity to temperature fluctuations and wavelength variations, as well as its high laser damage threshold, excellent thermal stability, and high delay accuracy. Global production in 2024 is expected to be approximately 204,000 units, with an average selling price of US$320 per unit.The upstream industry of optically contacted zero-order waveplates primarily includes high-quality optical crystal materials such as quartz and optical coating materials. Quartz crystals possess excellent optical anisotropy, light transmittance, and stability. Key manufacturers include Hubei Feilihua Quartz Glass, Heraeus Holding, Momentive, and Tosoh.

optically contacted zero-order waveplates are created by directly bonding two wave plates together using optical bonding. This achieves zero-order retardation in an adhesive-free optical path, with high retardation accuracy and temperature stability. Their end-use applications are extensive, encompassing nearly all cutting-edge technology fields requiring high polarization control, such as optical communications systems, scientific research experiments, optical testing, and medical laser systems.

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United States market for Optically Contacted Zero-Order Waveplate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Optically Contacted Zero-Order Waveplate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Optically Contacted Zero-Order Waveplate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Optically Contacted Zero-Order Waveplate players cover Thorlabs, Newport Corporation, EKSMA Optics, 3photon, II-VI Optical Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Optically Contacted Zero-Order Waveplate Industry Forecast” looks at past sales and reviews total world Optically Contacted Zero-Order Waveplate sales in 2025, providing a comprehensive analysis by region and market sector of projected Optically Contacted Zero-Order Waveplate sales for 2026 through 2032. With Optically Contacted Zero-Order Waveplate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Optically Contacted Zero-Order Waveplate industry.

This Insight Report provides a comprehensive analysis of the global Optically Contacted Zero-Order Waveplate 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 Optically Contacted Zero-Order Waveplate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Optically Contacted Zero-Order Waveplate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Optically Contacted Zero-Order Waveplate 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

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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 Optically Contacted Zero-Order Waveplate.

This report presents a comprehensive overview, market shares, and growth opportunities of Optically Contacted Zero-Order Waveplate market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

?/4

?/2

Segmentation by Application:

Industrial

Scientific Research

Medical

Communication

Other

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

Thorlabs

Newport Corporation

EKSMA Optics

3photon

II-VI Optical Systems

Tower Optical Corporation

Edmund Optics

CASTECH

MT-Optics

CryLink

Zhejiang Huachuang Optoelectronic Materials

EastOptics

A-Star Photonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Optically Contacted Zero-Order

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Waveplate market?

What factors are driving Optically Contacted Zero-Order Waveplate market growth, globally and by region?

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

How do Optically Contacted Zero-Order Waveplate market opportunities vary by end market size?

How does Optically Contacted Zero-Order Waveplate break out by Type, by Application?

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