

Global Linear Optical Encoders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Linear Optical Encoders market size was valued at US\$ 705 million in 2025 and is forecast to a readjusted size of US\$ 955 million by 2032 with a CAGR of 4.5% during review period.

Linear optical encoders are photoelectric position-sensing systems that convert straight-line motion into digital position/velocity signals by reading a patterned scale with a light source and sensor, built on an industry chain of upstream optoelectronic components and precision glass/metal scales and mechanical sealing parts through midstream readheads, interpolation electronics, and encoder assemblies, and sold into downstream applications such as CNC and other machine tools, semiconductor and electronics production equipment, metrology/inspection stages, robotics and automation axes, and medical/precision positioning systems.

In 2025, global Linear Optical Encoders production reached approximately 12233 K Units, with an average global market price of around US\$ 56.0 per unit. The global single-line production capacity ranges from 200 to 300 K Units per year. The industry's gross profit margin is approximately 30%-40%.

This report is a detailed and comprehensive analysis for global Linear Optical Encoders market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Linear Optical Encoders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Linear Optical Encoders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Linear Optical Encoders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Linear Optical Encoders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Linear Optical Encoders

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Linear Optical Encoders market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Broadcom, BEI Sensors, Renishaw, Dynapar, Baumer Group, TAMAGAWA SEIKI, CTS, Allied Motion, EPC, US Digital, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Linear Optical Encoders market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Incremental Encoders

Absolute Encoders

Market segment by Sales Channel

Online

Offline

Market segment by Mechanical Construction

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Market segment by Optical Principle

Transmissive

Reflective

Interferential

Market segment by Application

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

Major players covered

Broadcom

BEI Sensors

Renishaw

Dynapar

Baumer Group

TAMAGAWA SEIKI

CTS

Allied Motion

EPC

US Digital

CUI

OMRON Corporation

HEIDENHAIN

Bourns

Grayhill

Gurley Precision Instruments

HONEYWELL INTERNATIONAL INC

Graduate Honest Sensor Corp

HONTKO

Yuheng Optics

Inovance Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Linear Optical Encoders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Linear Optical Encoders, with price, sales quantity, revenue, and global market share of Linear Optical Encoders from 2021 to 2026.

Chapter 3, the Linear Optical Encoders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Linear Optical Encoders breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Linear Optical Encoders market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Linear Optical Encoders.

Chapter 14 and 15, to describe Linear Optical Encoders sales channel, distributors, customers, research findings and conclusion.

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