

Global Sensor for Wafer Edge Profile Measurement Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Sensor for Wafer Edge Profile Measurement market size was valued at US\$ 186 million in 2024 and is forecast to a readjusted size of USD 254 million by 2031 with a CAGR of 4.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The sensor for wafer edge profile measurement is a specialized device in semiconductor manufacturing designed for high-precision, non-contact detection of the geometric shape and physical properties of the wafer edge, ensuring that edge profile, bevel angle, thin film thickness, and surface quality meet stringent process requirements. It features nanoscale resolution, adaptability to complex geometries, and high-vacuum compatibility, and is widely used for edge shape measurement, defect detection, and thin film uniformity analysis. From an industry perspective, the surging demand for these sensors is driven by the advancement of sub-7nm processes, advanced packaging, and power semiconductors for electric vehicles. Technological trends focus on multi-parameter integration, AI-driven optimization, and high-throughput detection, propelling semiconductor manufacturing toward greater precision and reliability.

This report is a detailed and comprehensive analysis for global Sensor for Wafer Edge Profile Measurement 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 Sensor for Wafer Edge Profile Measurement market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Sensor for Wafer Edge Profile Measurement market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Sensor for Wafer Edge Profile Measurement market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Sensor for Wafer Edge Profile Measurement market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Sensor for Wafer Edge Profile Measurement
- 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 Sensor for Wafer Edge Profile Measurement 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 LMI Technologies, Baumer, Micro Epsilon, KEYENCE, Bright Red Systems, SICK, Nordson, Banner Engineering, Optex FA, Shanghai Gazer, etc.

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

Market Segmentation

Sensor for Wafer Edge Profile Measurement market is split by Type and by Application. For the period 2020-2031, 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

Through-beam Edge Sensor

Retro-reflective Sensors

2D/3D Laser Profiler

Market segment by Application

Thickness Measurement

Edge Detection

Others

Major players covered

LMI Technologies

Baumer

Micro Epsilon

KEYENCE

Bright Red Systems

SICK

Nordson

Banner Engineering

Optex FA

Shanghai Gazer

Ningbo Janpos

Photon (Shenzhen) Precision Technology

Hangzhou Sakady Sensor

Shen Zhen Sincevision 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 Sensor for Wafer Edge Profile Measurement product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sensor for Wafer Edge Profile Measurement, with price, sales quantity, revenue, and global market share of Sensor for Wafer Edge Profile Measurement from 2020 to 2025.

Chapter 3, the Sensor for Wafer Edge Profile Measurement competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sensor for Wafer Edge Profile Measurement breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Sensor for Wafer Edge Profile Measurement market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Sensor for Wafer Edge Profile Measurement.

Chapter 14 and 15, to describe Sensor for Wafer Edge Profile Measurement sales channel, distributors, customers, research findings and conclusion.

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