

Global AI Gas Sensor IC (AI Nose) 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 AI Gas Sensor IC (AI Nose) market size was valued at US\$ 324 million in 2025 and is forecast to a readjusted size of US\$ 451 million by 2032 with a CAGR of 4.9% during review period.

The AI ??gas sensor IC is a micro detection device that integrates artificial intelligence algorithms. It can accurately identify and monitor various gas components and concentrations in the environment, and achieve rapid response and intelligent analysis of gas information through a built-in micro sensor array and data processing unit. This chip has outstanding performance in environmental monitoring and health warning fields due to its high sensitivity, fast response speed and wide detection range. The advantage of the AI ??gas sensor chip lies in its powerful self-learning ability and adaptive adjustment function, which can accurately judge the gas type and change trend in a complex and changing environment. At the same time, its small size and low power consumption design make it easy to integrate into various portable devices, providing users with real-time, efficient and reliable gas monitoring solutions.

This report is a detailed and comprehensive analysis for global AI Gas Sensor IC (AI Nose) 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 AI Gas Sensor IC (AI Nose) market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Gas Sensor IC (AI Nose) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Gas Sensor IC (AI Nose) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Gas Sensor IC (AI Nose) market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 AI Gas Sensor IC (AI Nose)

- 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 AI Gas Sensor IC (AI Nose) 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 TAIYO YUDEN, Altered Carbon, Aroma Bit, BOSCH, AI Sensing Technology (Guangdong), CSMS (Ningbo) Technology, Suzhou Huiwen Nanotechnology, etc.

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

Market Segmentation

AI Gas Sensor IC (AI Nose) market is split by Type and by Application. For the period

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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

MEMS Type

QCM Type

Others

Market segment by Application

Consumer Electronics

New Energy

Medical

Automobile

Others

Major players covered

TAIYO YUDEN

Altered Carbon

Aroma Bit

BOSCH

AI Sensing Technology (Guangdong)

CSMS (Ningbo) Technology

Suzhou Huiwen Nanotechnology

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 AI Gas Sensor IC (AI Nose) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Gas Sensor IC (AI Nose), with price, sales quantity, revenue, and global market share of AI Gas Sensor IC (AI Nose) from 2021 to 2026.

Chapter 3, the AI Gas Sensor IC (AI Nose) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Gas Sensor IC (AI Nose) 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 AI Gas Sensor IC (AI Nose) 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 AI Gas Sensor IC (AI Nose).

Chapter 14 and 15, to describe AI Gas Sensor IC (AI Nose) sales channel, distributors, customers, research findings and conclusion.

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