

# **US Odor Sensor Market Size study, by Sensor Type (Biosensors, Chemical Sensors, Mass Spectrometry Sensors, Others), by Instrument Type (One Element Odor Sensor, Multi-odor Sensors), by Application (Smell Visualization and Standardization, Food Quality Control, Medical Diagnosis, Others), by End User Forecasts 2022-2032**

<https://marketpublishers.com/r/U753F5D21220EN.html>

Date: June 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: U753F5D21220EN

## **Abstracts**

US Odor Sensor Market is valued at approximately USD 509.93 million in 2023 and is anticipated to grow with a healthy growth rate of more than 29.37% over the forecast period 2024-2032. An Odor Sensor, also known as electronic nose is a device that mimics the human sense of smell. Like human nose which rely on biological receptors, odor sensors use various technologies to detect volatile compounds in the air. These sensors are categorized into Metal\_ Oxide Semiconductor sensors and Bio- Electronic noses. The US Odor Sensor Market is growing with environmental and industry sectors. Growing awareness of air quality, pollution's health impact is leading to growth of odor sensors in the market. The US market for odor sensors is taking advantage of a combination of factors involving health, safety, and environmental worries. As technology advances and provides more features, its usage is likely to increase and market growth.

The US Odour Sensor Market is driving due to several factors. Increasing awareness about health and hygiene. Government and regulatory bodies are enforcing stringent regulations regarding air quality control, emission monitoring, and environmental protection. The Environmental Protection Agency (EPA) regulates hazardous pollutants and establishes standards for air quality. Odor sensors are becoming increasingly necessary to monitor air quality and guarantee compliance as these rules get tougher.

This boosts the Odor Sensor Market in the United States. However, the cost of odor sensors is high especially for technologically advanced sensors which can restrain the market growth. Odor sensors face challenges in accurately detecting and identifying a wide range of odors due to complex nature of odorous substances, all these hinders the market growth.

Major market player included in this report are:

Electronic Sensor Technology

Alpha sense Inc.

Honeywell International Inc.

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Sensor Type

Biosensors

Chemical Sensors

Mass Spectrometry Sensors

Differential Optical Absorption Spectrometers

Others

By Instrument Type

One Element Odor Sensor

Multi-odor Sensors

By Application

Smell Visualization and Standardization

Food Quality Control

Medical Diagnosis

Air Control and Environmental Monitoring

Others

**By End User**

Military and Defense

Agriculture

Healthcare

Entertainment

Food &amp; Beverages

Renewable Energy Generation and Waste Management

Cosmetics

Others

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

**Key Takeaways:**

Market Estimates &amp; Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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