

Global Electronic Nose Market Size study, by end user vertical (Military and Defense, Healthcare, Food and Beverage, Waste Management (Environmental Monitoring), Other End-user Verticals), and Regional Forecasts 2021-2027

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Abstracts

Global Electronic Nose Market is valued at approximately USD 17.8 million in 2020 and is anticipated to grow with a healthy growth rate of more than 12.44 % over the forecast period 2021-2027. The electronic nose has been studied as part of biomimicry or biomimetics research to mimic human olfaction in order to perceive a certain scent, aroma, or flavour. The apparatus made it possible to quantify and identify a mixture of scents without tiring the operator. Aromas, or smells, are made up of volatile molecules that are recognized by receptors in the nose. The signal is then sent to the brain, which recognizes the smell related to specific chemical. The same concept is being used to create and develop electric noses. In the food sector, electronic noses are used for quality control, process monitoring, shelf-life study, freshness assessment, and authenticity assessment. Because there are so many odor-based metrics for gauging quality, freshness, components, ripeness, and other things, the technology is expected to find many uses in the business. Food counterfeiting is one of the issues that distributors, retailers, producers, and consumers are facing. One of the most important characteristics of food products' authenticity and quality is their flavour. When it comes to some delicacies, the aroma is enough to tell the difference between a genuine product and a fake. Fatih Sultan Mehmet University researchers and academicians have invented a novel device that uses artificial intelligence to help prevent food fraud. The technology can determine whether or not the food sold in the stalls is genuine. According to the Centers for Disease Control and Prevention, salmonella causes 1.2 million infections, 23,000 hospitalizations, and 450 fatalities in the United States each year. Approximately 1 million of these illnesses are caused by food. For instance,

Olfaguard, a Toronto-based start-up, is striving to shorten the time it takes for food manufacturers to detect food-borne pathogens like E. Coli and Salmonella in their goods. The business intends to create an e-nose that is pathogen specific and can deliver accurate high specificity results in minutes at a reasonable cost, which will aid in the prevention of food poisoning. However, high cost of e-Nose may impede market growth over the forecast period of 2021-2027.

The regional analysis of the Global Electronic Nose Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is the leading region across the world in terms of market share due to proactiveness of the government and the corporate bodies for creating a safe working environment in the region. Whereas Europe is also anticipated to exhibit the highest growth rate / CAGR over the forecast period 2021-2027, due to implementation of e-Nose for disaster management.

Major market player included in this report are:

Alpha MOS SA
Electronic Sensor Technology Inc.
Plasmion GmbH
Odotech Inc.
The eNose Company
AIRSENSE Analytics GmbH
Aryballe Technologies SA
Comon Invent BV
Sensigent LLC
Stratuscent Inc.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By end user vertical:
Military and Defense
Healthcare

Food and Beverage
Waste Management (Environmental Monitoring)

Other End-user Verticals

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2017, 2018

Base year – 2019

Forecast period – 2020 to 2027.

Target Audience of the Global Electronic Nose Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers
Investment bankers
Investors

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