

Global Infrared Gas Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Infrared Gas Sensor market size will reach 566.18 Million USD in 2025 and is projected to reach 718.88 Million USD by 2032, with a CAGR of 3.47% (2025-2032). Notably, the China Infrared Gas Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An Infrared Gas Sensor is a device that detects the presence and concentration of gases by measuring the absorption of infrared light at specific wavelengths. These sensors operate on the principle that different gases absorb infrared radiation at distinct wavelengths, allowing for the identification and quantification of gases in the surrounding environment. Infrared gas sensors find application in gas detection systems for industrial safety, environmental monitoring, and indoor air quality assessments. They are capable of detecting a variety of gases, including carbon dioxide, methane, carbon monoxide, and hydrocarbons. As gas molecules pass through the sensor, they absorb specific infrared wavelengths, and the sensor registers changes in absorption, generating an electrical signal proportional to the gas concentration. Infrared gas sensors are valued for their accuracy, sensitivity, and ability to operate in diverse environmental conditions, making them essential in ensuring safety and compliance in various industrial and commercial settings.

The major global manufacturers of Infrared Gas Sensor include Alphasense,

CityTechnology Ltd, Drager, GSS, GE, Senseair, Dynament, SGX Sensortech (IS), SmartGAS, Mipex, Clairair, Heimann, M-U-T, Edinburgh Sensors, Hanwei, NE Sensor, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Infrared Gas Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Infrared Gas Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Infrared Gas Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Infrared Gas Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Infrared Gas Sensor Include:

Alphasense

CityTechnology Ltd

Drager

GSS

GE

Senseair

Dynament

SGX Sensortech (IS)

SmartGAS

Mipex

Clairair

Heimann

M-U-T

Edinburgh Sensors

Hanwei

NE Sensor

Infrared Gas Sensor Product Segment Include:

CO2

Combustible Gases

Others

Infrared Gas Sensor Product Application Include:

Industrial

Residential

Chapter Scope

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