

Global Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Non-dispersive infrared (NDIR) sensing devices are widely used in various industries for detecting and measuring the concentration of gases in a given environment. NDIR technology relies on the absorption of infrared light by specific gas molecules to determine their presence and concentration.

Stricter environmental regulations and emission control requirements have driven the need for accurate and continuous monitoring of gases like carbon dioxide (CO₂) and methane (CH₄).

NDIR sensors are used to detect toxic and flammable gases, ensuring the safety of workers and preventing accidents in industrial environments.

Growing awareness about indoor air quality in residential and commercial spaces has led to increased demand for NDIR-based CO₂ sensors in HVAC systems.

Developing NDIR sensors for a wider range of gases and lower detection limits.

Ensuring long-term stability and reliability of sensors, especially in harsh environments.

Managing costs while maintaining high accuracy and performance.

This report is a detailed and comprehensive analysis for global Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Non-dispersive Infrared Sensing Devices 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 Amphenol, Honeywell International Inc., Senseair AB, S+S Regeltechnik GmbH, Dynament, MIPEX TECHNOLOGY, Gas Sensing Solutions, Nano Environmental Technology, Zhengzhou

Winsen Electronics Technology, ELT Sensor, etc.

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

Market Segmentation

Non-dispersive Infrared Sensing Devices 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

Carbon dioxide Sensing Device

Hydrocarbons Sensing Device

Carbon monoxide Sensing Device

Ethylene Sensing Device

Anesthetic gases Sensing Device

Others

Market segment by Application

Automotive

Chemical

Oil and Gas

Medical

Industrial and Manufacturing

Food processing and Storage

Others

Major players covered

Amphenol

Honeywell International Inc.

Senseair AB

S+S Regeltechnik GmbH

Dynament

MIPEX TECHNOLOGY

Gas Sensing Solutions

Nano Environmental Technology

Zhengzhou Winsen Electronics Technology

ELT Sensor

Emerson Electric

Shenzhen Mindray Bio-Medical Electronics

Cubic Sensor and Instrument

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 Non-dispersive Infrared Sensing Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-dispersive Infrared Sensing Devices, with price, sales quantity, revenue, and global market share of Non-dispersive Infrared Sensing Devices from 2020 to 2025.

Chapter 3, the Non-dispersive Infrared Sensing Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices 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 Non-dispersive Infrared Sensing Devices.

Chapter 14 and 15, to describe Non-dispersive Infrared Sensing Devices sales channel, distributors, customers, research findings and conclusion.

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