

Global Non-Dispersive Infrared (NDIR) Sensor Market Research Report 2022 Professional Edition

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Abstracts

The global Non-Dispersive Infrared (NDIR) Sensor market was valued at 272.45 Million USD in 2021 and will grow with a CAGR of 7.66% from 2021 to 2027, based on HNY Research newly published report.

The prime objective of this report is to provide the insights on the post COVID-19 impact which will help market players in this field evaluate their business approaches. Also, this report covers market segmentation by major market vendors, types, applications/end users and geography(North America, East Asia, Europe, South Asia, Southeast Asia, Middle East, Africa, Oceania, South America).

Infrared (IR) techniques are very popular in gas detection technology since many gases have characteristic vibration/rotation absorption spectra with narrow, non-overlapping bands in the infrared spectrum between 2 μ m and 20 μ m. Key to this process is the selection of the correct absorption wavelength for measurement. The wavelengths from the optical source can be separated spatially using prisms or diffraction gratings. This is known as dispersive separation. Alternatively, an optical filter can be used which allows only transmission of the required wavelength. This is a non-dispersive infrared (NDIR) approach. It has been shown (Jacquinot P. 1954 J. Opt. Soc. Amer. 44, 761-765) that optical filters are typically 1000 times more efficient than gratings and up to 100,000 times more efficient than prisms at separating IR wavelengths, so NDIR gas sensors offer real performance advantages over dispersive systems and are the systems of choice. At present, advanced non-dispersive infrared (NDIR) sensor technology is mainly in the hands of Japanese and European and American companies, and the industry has a strong technology monopoly. Global leading companies include Amphenol Advanced Sensors, Senseair (Asahi Kasei Microdevices), Murata, Sensirion, MKS Instruments, Vaisala, Teledyne API, Honeywell etc. The manufacturing companies

in Europe, America and Japan have deep accumulation of technology, strong comprehensive strength, and obvious advantages in core patents and core technologies. They occupy the high-end market of the industry and occupy most of the global non-dispersive infrared (NDIR) sensor market share. China has made certain technological breakthroughs in the field of non-dispersive infrared (NDIR) sensors. With the support of national policies for the optical sensor industry, the development of optical sensors has been vigorously promoted.

By Market Vendors:

Amphenol Advanced Sensors

Senseair (Asahi Kasei Microdevices)

Murata

Sensirion

MKS Instruments

Vaisala

Teledyne API

Honeywell

ELT SENSOR

E+E

Dwyer Instruments

Trane

Micro-Hybrid

Edinburgh Instruments

Alphasense

Cubic Sensor and Instrument

Nano Environmental Technology S.r.l. (N.E.T.)

Super Systems

ORIENTAL SYSTEM TECHNOLOGY INC.

smartGAS Mikrosensorik GmbH

SST Sensing Ltd Company

Figaro Engineering Inc

Winsen

Suzhou Promisense Co., Ltd.

By Types:

NDIR CO2 Sensors

NDIR Methane (CH4) Gas Sensors

NDIR CO Sensors

NDIR Propane Gas Sensors

NDIR Refrigerant Gases Sensors

NDIR Ethylene Gases Sensors

NDIR SF6 Infrared Sensors

By Applications:

Industrial Security

Environmental Protection

Medical

Residential and Commercial Security

The Power Grid

Automotive

Research Organization

Key Indicators Analysed

Market Players & Competitor Analysis: The report covers the key players of the industry including Company Profile, Product Specifications, Production Capacity/Sales, Revenue, Price and Gross Margin 2016-2027 & Sales with a thorough analysis of the market's competitive landscape and detailed information on vendors and comprehensive details of factors that will challenge the growth of major market vendors.

Global and Regional Market Analysis: The report includes Global & Regional market status and outlook 2016-2027. Further the report provides break down details about each region & countries covered in the report. Identifying its sales, sales volume & revenue forecast. With detailed analysis by types and applications.

Market Trends: Market key trends which include Increased Competition and Continuous Innovations.

Opportunities and Drivers: Identifying the Growing Demands and New Technology

Porters Five Force Analysis: The report provides with the state of competition in industry depending on five basic forces: threat of new entrants, bargaining power of suppliers, bargaining power of buyers, threat of substitute products or services, and existing industry rivalry.

Key Reasons to Purchase

To gain insightful analyses of the market and have comprehensive understanding of the global market and its commercial landscape.

Assess the production processes, major issues, and solutions to mitigate the development risk.

To understand the most affecting driving and restraining forces in the market and its impact in the global market.

Learn about the market strategies that are being adopted by leading respective organizations.

To understand the future outlook and prospects for the market.

Besides the standard structure reports, we also provide custom research according to specific requirements

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