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Global Double Wavelength NDIR Sensor Market Growth 2026-2032

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Abstracts

The global Double Wavelength NDIR Sensor market size is predicted to grow from US$ 772 million in 2025 to US$ 1174 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

The Double Wavelength Non-Dispersive Infrared (NDIR) Sensor is a type of gas sensor that utilizes two distinct wavelengths of infrared radiation to detect and measure the concentration of a specific gas in the air. It measures the absorption of infrared radiation by the gas, allowing for accurate and reliable gas detection. Double Wavelength NDIR Sensors are commonly used in industrial applications, greenhouse gas monitoring, and environmental pollution control.

In 2024, global Double Wavelength NDIR Sensor sales volume reached approximately 9.19 million units, with an average global market price of around 82 US$ per unit.

Governments and environmental agencies are tightening regulations on air pollution, greenhouse gas emissions, and indoor air quality.

Double wavelength NDIR sensors are widely adopted for detecting gases like CO?, CH?, CO, and refrigerants with high precision.

Policies such as the EU Green Deal, U.S. EPA standards, and China’s carbon neutrality goals are fueling demand for sensors in air monitoring stations, HVAC systems, and industrial facilities.

Indoor air quality has become a public health priority, especially after the COVID-19 pandemic.

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Double wavelength NDIR sensors are integrated into HVAC systems, smart thermostats, and air purifiers to ensure optimal ventilation and safe CO? levels.

The push for energy-efficient, healthy, and sustainable smart buildings is a major growth driver for the market.

With stricter emissions standards (e.g., Euro 6/7, EPA Tier 3), vehicles require advanced exhaust monitoring and cabin air quality sensors.

Electric vehicles (EVs) are also adopting NDIR sensors for battery safety monitoring, thermal management, and cabin comfort systems.

Double wavelength technology ensures stable operation across varying temperatures and vibrations, making it well-suited for automotive environments.

Many industries such as oil & gas, mining, chemical plants, and manufacturing require continuous gas monitoring to prevent leaks, explosions, and toxic exposure.

Double wavelength NDIR sensors offer fast response, high accuracy, and reduced calibration needs, lowering operational risks and maintenance costs.

Occupational safety regulations (e.g., OSHA, ATEX directives) are accelerating deployment in hazardous environments.

LP Information, Inc. (LPI) ' newest research report, the “Double Wavelength NDIR Sensor Industry Forecast” looks at past sales and reviews total world Double Wavelength NDIR Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Double Wavelength NDIR Sensor sales for 2026 through 2032. With Double Wavelength NDIR Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Double Wavelength NDIR Sensor industry.

This Insight Report provides a comprehensive analysis of the global Double Wavelength NDIR Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Double Wavelength NDIR Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique

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position in an accelerating global Double Wavelength NDIR Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Double Wavelength NDIR Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Double Wavelength NDIR Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Double Wavelength NDIR Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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

Others

Segmentation by Application:

Industrial

Environmental Protection

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Pharmaceuticals

Household

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Amphenol Advanced Sensors

Senseair (Asahi Kasei Microdevices)

Murata

Sensirion

MKS Instruments

Vaisala

Teledyne API

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Honeywell

ELT SENSOR

E+E

Dwyer Instruments

Trane

Micro-Hybrid

Edinburgh Instruments

Alphasense

Nano Environmental Technology

Cubic Sensor and Instrument

Key Questions Addressed in this Report

What is the 10-year outlook for the global Double Wavelength NDIR Sensor market?

What factors are driving Double Wavelength NDIR Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Double Wavelength NDIR Sensor market opportunities vary by end market size?

How does Double Wavelength NDIR Sensor break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Double Wavelength NDIR Sensor Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Double Wavelength NDIR Sensor by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Double Wavelength NDIR Sensor by Country/Region, 2021, 2025 & 2032
2.2 Double Wavelength NDIR Sensor Segment by Type
  2.2.1 NDIR CO2 Sensors
  2.2.2 NDIR Methane (CH4) Gas Sensors
  2.2.3 NDIR CO Sensors
  2.2.4 NDIR Propane Gas Sensors
  2.2.5 NDIR Refrigerant Gases Sensors
  2.2.6 NDIR Ethylene Gases Sensors
  2.2.7 NDIR SF6 Infrared Sensors
  2.2.8 Others
  2.2.9 Double Wavelength NDIR Sensor Sales by Type
    2.2.9.1 Global Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
    2.2.9.2 Global Double Wavelength NDIR Sensor Revenue and Market Share by Type (2021-2026)
    2.2.9.3 Global Double Wavelength NDIR Sensor Sale Price by Type (2021-2026)
2.3 Double Wavelength NDIR Sensor Segment by Application
  2.3.1 Industrial
  2.3.2 Environmental Protection

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2.3.3 Pharmaceuticals
2.3.4 Household
2.3.5 Others
2.3.6 Double Wavelength NDIR Sensor Sales by Application
2.3.6.1 Global Double Wavelength NDIR Sensor Sale Market Share by Application (2021-2026)
2.3.6.2 Global Double Wavelength NDIR Sensor Revenue and Market Share by Application (2021-2026)
2.3.6.3 Global Double Wavelength NDIR Sensor Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Double Wavelength NDIR Sensor Breakdown Data by Company
3.1.1 Global Double Wavelength NDIR Sensor Annual Sales by Company (2021-2026)
3.1.2 Global Double Wavelength NDIR Sensor Sales Market Share by Company (2021-2026)
3.2 Global Double Wavelength NDIR Sensor Annual Revenue by Company (2021-2026)
3.2.1 Global Double Wavelength NDIR Sensor Revenue by Company (2021-2026)
3.2.2 Global Double Wavelength NDIR Sensor Revenue Market Share by Company (2021-2026)
3.3 Global Double Wavelength NDIR Sensor Sale Price by Company
3.4 Key Manufacturers Double Wavelength NDIR Sensor Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Double Wavelength NDIR Sensor Product Location Distribution
3.4.2 Players Double Wavelength NDIR Sensor Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DOUBLE WAVELENGTH NDIR SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Double Wavelength NDIR Sensor Market Size by Geographic Region (2021-2026)

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4.1.1 Global Double Wavelength NDIR Sensor Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Double Wavelength NDIR Sensor Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Double Wavelength NDIR Sensor Market Size by Country/Region (2021-2026)
4.2.1 Global Double Wavelength NDIR Sensor Annual Sales by Country/Region (2021-2026)
4.2.2 Global Double Wavelength NDIR Sensor Annual Revenue by Country/Region (2021-2026)
4.3 Americas Double Wavelength NDIR Sensor Sales Growth
4.4 APAC Double Wavelength NDIR Sensor Sales Growth
4.5 Europe Double Wavelength NDIR Sensor Sales Growth
4.6 Middle East & Africa Double Wavelength NDIR Sensor Sales Growth

5 AMERICAS

5.1 Americas Double Wavelength NDIR Sensor Sales by Country
5.1.1 Americas Double Wavelength NDIR Sensor Sales by Country (2021-2026)
5.1.2 Americas Double Wavelength NDIR Sensor Revenue by Country (2021-2026)
5.2 Americas Double Wavelength NDIR Sensor Sales by Type (2021-2026)
5.3 Americas Double Wavelength NDIR Sensor Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Double Wavelength NDIR Sensor Sales by Region
6.1.1 APAC Double Wavelength NDIR Sensor Sales by Region (2021-2026)
6.1.2 APAC Double Wavelength NDIR Sensor Revenue by Region (2021-2026)
6.2 APAC Double Wavelength NDIR Sensor Sales by Type (2021-2026)
6.3 APAC Double Wavelength NDIR Sensor Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India

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info@marketpublishers.com

6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Double Wavelength NDIR Sensor by Country
  7.1.1 Europe Double Wavelength NDIR Sensor Sales by Country (2021-2026)
  7.1.2 Europe Double Wavelength NDIR Sensor Revenue by Country (2021-2026)
7.2 Europe Double Wavelength NDIR Sensor Sales by Type (2021-2026)
7.3 Europe Double Wavelength NDIR Sensor Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Double Wavelength NDIR Sensor by Country
  8.1.1 Middle East & Africa Double Wavelength NDIR Sensor Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Double Wavelength NDIR Sensor Revenue by Country (2021-2026)
8.2 Middle East & Africa Double Wavelength NDIR Sensor Sales by Type (2021-2026)
8.3 Middle East & Africa Double Wavelength NDIR Sensor Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

+357 96 030922
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10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Double Wavelength NDIR Sensor
10.3 Manufacturing Process Analysis of Double Wavelength NDIR Sensor
10.4 Industry Chain Structure of Double Wavelength NDIR Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Double Wavelength NDIR Sensor Distributors
11.3 Double Wavelength NDIR Sensor Customer

12 WORLD FORECAST REVIEW FOR DOUBLE WAVELENGTH NDIR SENSOR BY GEOGRAPHIC REGION

12.1 Global Double Wavelength NDIR Sensor Market Size Forecast by Region
  12.1.1 Global Double Wavelength NDIR Sensor Forecast by Region (2027-2032)
  12.1.2 Global Double Wavelength NDIR Sensor Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Double Wavelength NDIR Sensor Forecast by Type (2027-2032)
12.7 Global Double Wavelength NDIR Sensor Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Amphenol Advanced Sensors
  13.1.1 Amphenol Advanced Sensors Company Information
  13.1.2 Amphenol Advanced Sensors Double Wavelength NDIR Sensor Product Portfolios and Specifications
  13.1.3 Amphenol Advanced Sensors Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Amphenol Advanced Sensors Main Business Overview
  13.1.5 Amphenol Advanced Sensors Latest Developments
13.2 Senseair (Asahi Kasei Microdevices)

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13.2.1 Senseair (Asahi Kasei Microdevices) Company Information
13.2.2 Senseair (Asahi Kasei Microdevices) Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.2.3 Senseair (Asahi Kasei Microdevices) Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Senseair (Asahi Kasei Microdevices) Main Business Overview
13.2.5 Senseair (Asahi Kasei Microdevices) Latest Developments
13.3 Murata
13.3.1 Murata Company Information
13.3.2 Murata Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.3.3 Murata Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Murata Main Business Overview
13.3.5 Murata Latest Developments
13.4 Sensirion
13.4.1 Sensirion Company Information
13.4.2 Sensirion Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.4.3 Sensirion Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Sensirion Main Business Overview
13.4.5 Sensirion Latest Developments
13.5 MKS Instruments
13.5.1 MKS Instruments Company Information
13.5.2 MKS Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.5.3 MKS Instruments Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 MKS Instruments Main Business Overview
13.5.5 MKS Instruments Latest Developments
13.6 Vaisala
13.6.1 Vaisala Company Information
13.6.2 Vaisala Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.6.3 Vaisala Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Vaisala Main Business Overview
13.6.5 Vaisala Latest Developments
13.7 Teledyne API
13.7.1 Teledyne API Company Information

+357 96 030922
info@marketpublishers.com

13.7.2 Teledyne API Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.7.3 Teledyne API Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Teledyne API Main Business Overview
13.7.5 Teledyne API Latest Developments
13.8 Honeywell
13.8.1 Honeywell Company Information
13.8.2 Honeywell Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.8.3 Honeywell Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Honeywell Main Business Overview
13.8.5 Honeywell Latest Developments
13.9 ELT SENSOR
13.9.1 ELT SENSOR Company Information
13.9.2 ELT SENSOR Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.9.3 ELT SENSOR Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 ELT SENSOR Main Business Overview
13.9.5 ELT SENSOR Latest Developments
13.10 E+E
13.10.1 E+E Company Information
13.10.2 E+E Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.10.3 E+E Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 E+E Main Business Overview
13.10.5 E+E Latest Developments
13.11 Dwyer Instruments
13.11.1 Dwyer Instruments Company Information
13.11.2 Dwyer Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.11.3 Dwyer Instruments Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Dwyer Instruments Main Business Overview
13.11.5 Dwyer Instruments Latest Developments
13.12 Trane
13.12.1 Trane Company Information

+357 96 030922
info@marketpublishers.com

13.12.2 Trane Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.12.3 Trane Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Trane Main Business Overview
13.12.5 Trane Latest Developments
13.13 Micro-Hybrid
13.13.1 Micro-Hybrid Company Information
13.13.2 Micro-Hybrid Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.13.3 Micro-Hybrid Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Micro-Hybrid Main Business Overview
13.13.5 Micro-Hybrid Latest Developments
13.14 Edinburgh Instruments
13.14.1 Edinburgh Instruments Company Information
13.14.2 Edinburgh Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.14.3 Edinburgh Instruments Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Edinburgh Instruments Main Business Overview
13.14.5 Edinburgh Instruments Latest Developments
13.15 Alphasense
13.15.1 Alphasense Company Information
13.15.2 Alphasense Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.15.3 Alphasense Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Alphasense Main Business Overview
13.15.5 Alphasense Latest Developments
13.16 Nano Environmental Technology
13.16.1 Nano Environmental Technology Company Information
13.16.2 Nano Environmental Technology Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.16.3 Nano Environmental Technology Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Nano Environmental Technology Main Business Overview
13.16.5 Nano Environmental Technology Latest Developments
13.17 Cubic Sensor and Instrument
13.17.1 Cubic Sensor and Instrument Company Information

+357 96 030922
info@marketpublishers.com

13.17.2 Cubic Sensor and Instrument Double Wavelength NDIR Sensor Product Portfolios and Specifications
13.17.3 Cubic Sensor and Instrument Double Wavelength NDIR Sensor Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Cubic Sensor and Instrument Main Business Overview
13.17.5 Cubic Sensor and Instrument Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Double Wavelength NDIR Sensor Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Double Wavelength NDIR Sensor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of NDIR CO2 Sensors
Table 4. Major Players of NDIR Methane (CH4) Gas Sensors
Table 5. Major Players of NDIR CO Sensors
Table 6. Major Players of NDIR Propane Gas Sensors
Table 7. Major Players of NDIR Refrigerant Gases Sensors
Table 8. Major Players of NDIR Ethylene Gases Sensors
Table 9. Major Players of NDIR SF6 Infrared Sensors
Table 10. Major Players of Others
Table 11. Global Double Wavelength NDIR Sensor Sales by Type (2021-2026) & (K Units)
Table 12. Global Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
Table 13. Global Double Wavelength NDIR Sensor Revenue by Type (2021-2026) & ($ million)
Table 14. Global Double Wavelength NDIR Sensor Revenue Market Share by Type (2021-2026)
Table 15. Global Double Wavelength NDIR Sensor Sale Price by Type (2021-2026) & (US$/Unit)
Table 16. Global Double Wavelength NDIR Sensor Sale by Application (2021-2026) & (K Units)
Table 17. Global Double Wavelength NDIR Sensor Sale Market Share by Application (2021-2026)
Table 18. Global Double Wavelength NDIR Sensor Revenue by Application (2021-2026) & ($ million)
Table 19. Global Double Wavelength NDIR Sensor Revenue Market Share by Application (2021-2026)
Table 20. Global Double Wavelength NDIR Sensor Sale Price by Application (2021-2026) & (US$/Unit)
Table 21. Global Double Wavelength NDIR Sensor Sales by Company (2021-2026) & (K Units)
Table 22. Global Double Wavelength NDIR Sensor Sales Market Share by Company

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info@marketpublishers.com

(2021-2026)
Table 23. Global Double Wavelength NDIR Sensor Revenue by Company (2021-2026) & ($ millions)
Table 24. Global Double Wavelength NDIR Sensor Revenue Market Share by Company (2021-2026)
Table 25. Global Double Wavelength NDIR Sensor Sale Price by Company (2021-2026) & (US$/Unit)
Table 26. Key Manufacturers Double Wavelength NDIR Sensor Producing Area Distribution and Sales Area
Table 27. Players Double Wavelength NDIR Sensor Products Offered
Table 28. Double Wavelength NDIR Sensor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 29. New Products and Potential Entrants
Table 30. Market M&A Activity & Strategy
Table 31. Global Double Wavelength NDIR Sensor Sales by Geographic Region (2021-2026) & (K Units)
Table 32. Global Double Wavelength NDIR Sensor Sales Market Share Geographic Region (2021-2026)
Table 33. Global Double Wavelength NDIR Sensor Revenue by Geographic Region (2021-2026) & ($ millions)
Table 34. Global Double Wavelength NDIR Sensor Revenue Market Share by Geographic Region (2021-2026)
Table 35. Global Double Wavelength NDIR Sensor Sales by Country/Region (2021-2026) & (K Units)
Table 36. Global Double Wavelength NDIR Sensor Sales Market Share by Country/Region (2021-2026)
Table 37. Global Double Wavelength NDIR Sensor Revenue by Country/Region (2021-2026) & ($ millions)
Table 38. Global Double Wavelength NDIR Sensor Revenue Market Share by Country/Region (2021-2026)
Table 39. Americas Double Wavelength NDIR Sensor Sales by Country (2021-2026) & (K Units)
Table 40. Americas Double Wavelength NDIR Sensor Sales Market Share by Country (2021-2026)
Table 41. Americas Double Wavelength NDIR Sensor Revenue by Country (2021-2026) & ($ millions)
Table 42. Americas Double Wavelength NDIR Sensor Sales by Type (2021-2026) & (K Units)
Table 43. Americas Double Wavelength NDIR Sensor Sales by Application (2021-2026)

+357 96 030922
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& (K Units)
Table 44. APAC Double Wavelength NDIR Sensor Sales by Region (2021-2026) & (K Units)
Table 45. APAC Double Wavelength NDIR Sensor Sales Market Share by Region (2021-2026)
Table 46. APAC Double Wavelength NDIR Sensor Revenue by Region (2021-2026) & ($ millions)
Table 47. APAC Double Wavelength NDIR Sensor Sales by Type (2021-2026) & (K Units)
Table 48. APAC Double Wavelength NDIR Sensor Sales by Application (2021-2026) & (K Units)
Table 49. Europe Double Wavelength NDIR Sensor Sales by Country (2021-2026) & (K Units)
Table 50. Europe Double Wavelength NDIR Sensor Revenue by Country (2021-2026) & ($ millions)
Table 51. Europe Double Wavelength NDIR Sensor Sales by Type (2021-2026) & (K Units)
Table 52. Europe Double Wavelength NDIR Sensor Sales by Application (2021-2026) & (K Units)
Table 53. Middle East & Africa Double Wavelength NDIR Sensor Sales by Country (2021-2026) & (K Units)
Table 54. Middle East & Africa Double Wavelength NDIR Sensor Revenue Market Share by Country (2021-2026)
Table 55. Middle East & Africa Double Wavelength NDIR Sensor Sales by Type (2021-2026) & (K Units)
Table 56. Middle East & Africa Double Wavelength NDIR Sensor Sales by Application (2021-2026) & (K Units)
Table 57. Key Market Drivers & Growth Opportunities of Double Wavelength NDIR Sensor
Table 58. Key Market Challenges & Risks of Double Wavelength NDIR Sensor
Table 59. Key Industry Trends of Double Wavelength NDIR Sensor
Table 60. Double Wavelength NDIR Sensor Raw Material
Table 61. Key Suppliers of Raw Materials
Table 62. Double Wavelength NDIR Sensor Distributors List
Table 63. Double Wavelength NDIR Sensor Customer List
Table 64. Global Double Wavelength NDIR Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 65. Global Double Wavelength NDIR Sensor Revenue Forecast by Region (2027-2032) & ($ millions)

+357 96 030922
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Table 66. Americas Double Wavelength NDIR Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 67. Americas Double Wavelength NDIR Sensor Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 68. APAC Double Wavelength NDIR Sensor Sales Forecast by Region (2027-2032) & (K Units)
Table 69. APAC Double Wavelength NDIR Sensor Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 70. Europe Double Wavelength NDIR Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 71. Europe Double Wavelength NDIR Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 72. Middle East & Africa Double Wavelength NDIR Sensor Sales Forecast by Country (2027-2032) & (K Units)
Table 73. Middle East & Africa Double Wavelength NDIR Sensor Revenue Forecast by Country (2027-2032) & ($ millions)
Table 74. Global Double Wavelength NDIR Sensor Sales Forecast by Type (2027-2032) & (K Units)
Table 75. Global Double Wavelength NDIR Sensor Revenue Forecast by Type (2027-2032) & ($ millions)
Table 76. Global Double Wavelength NDIR Sensor Sales Forecast by Application (2027-2032) & (K Units)
Table 77. Global Double Wavelength NDIR Sensor Revenue Forecast by Application (2027-2032) & ($ millions)
Table 78. Amphenol Advanced Sensors Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 79. Amphenol Advanced Sensors Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 80. Amphenol Advanced Sensors Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 81. Amphenol Advanced Sensors Main Business
Table 82. Amphenol Advanced Sensors Latest Developments
Table 83. Senseair (Asahi Kasei Microdevices) Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 84. Senseair (Asahi Kasei Microdevices) Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 85. Senseair (Asahi Kasei Microdevices) Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 86. Senseair (Asahi Kasei Microdevices) Main Business

+357 96 030922
info@marketpublishers.com

Table 87. Senseair (Asahi Kasei Microdevices) Latest Developments
Table 88. Murata Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 89. Murata Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 90. Murata Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 91. Murata Main Business
Table 92. Murata Latest Developments
Table 93. Sensirion Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 94. Sensirion Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 95. Sensirion Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. Sensirion Main Business
Table 97. Sensirion Latest Developments
Table 98. MKS Instruments Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 99. MKS Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 100. MKS Instruments Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. MKS Instruments Main Business
Table 102. MKS Instruments Latest Developments
Table 103. Vaisala Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 104. Vaisala Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 105. Vaisala Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. Vaisala Main Business
Table 107. Vaisala Latest Developments
Table 108. Teledyne API Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 109. Teledyne API Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 110. Teledyne API Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 111. Teledyne API Main Business
Table 112. Teledyne API Latest Developments
Table 113. Honeywell Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 114. Honeywell Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 115. Honeywell Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 116. Honeywell Main Business
Table 117. Honeywell Latest Developments
Table 118. ELT SENSOR Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 119. ELT SENSOR Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 120. ELT SENSOR Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 121. ELT SENSOR Main Business
Table 122. ELT SENSOR Latest Developments
Table 123. E+E Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 124. E+E Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 125. E+E Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 126. E+E Main Business
Table 127. E+E Latest Developments
Table 128. Dwyer Instruments Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 129. Dwyer Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 130. Dwyer Instruments Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 131. Dwyer Instruments Main Business
Table 132. Dwyer Instruments Latest Developments
Table 133. Trane Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 134. Trane Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 135. Trane Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 136. Trane Main Business
Table 137. Trane Latest Developments
Table 138. Micro-Hybrid Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 139. Micro-Hybrid Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 140. Micro-Hybrid Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 141. Micro-Hybrid Main Business
Table 142. Micro-Hybrid Latest Developments
Table 143. Edinburgh Instruments Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 144. Edinburgh Instruments Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 145. Edinburgh Instruments Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 146. Edinburgh Instruments Main Business
Table 147. Edinburgh Instruments Latest Developments
Table 148. Alphasense Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 149. Alphasense Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 150. Alphasense Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 151. Alphasense Main Business
Table 152. Alphasense Latest Developments
Table 153. Nano Environmental Technology Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 154. Nano Environmental Technology Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 155. Nano Environmental Technology Double Wavelength NDIR Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 156. Nano Environmental Technology Main Business
Table 157. Nano Environmental Technology Latest Developments
Table 158. Cubic Sensor and Instrument Basic Information, Double Wavelength NDIR Sensor Manufacturing Base, Sales Area and Its Competitors
Table 159. Cubic Sensor and Instrument Double Wavelength NDIR Sensor Product Portfolios and Specifications
Table 160. Cubic Sensor and Instrument Double Wavelength NDIR Sensor Sales (K

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Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 161. Cubic Sensor and Instrument Main Business
Table 162. Cubic Sensor and Instrument Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Double Wavelength NDIR Sensor
Figure 2. Double Wavelength NDIR Sensor Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Double Wavelength NDIR Sensor Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Double Wavelength NDIR Sensor Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Double Wavelength NDIR Sensor Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Double Wavelength NDIR Sensor Sales Market Share by Country/Region (2025)
Figure 10. Double Wavelength NDIR Sensor Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of NDIR CO2 Sensors
Figure 12. Product Picture of NDIR Methane (CH4) Gas Sensors
Figure 13. Product Picture of NDIR CO Sensors
Figure 14. Product Picture of NDIR Propane Gas Sensors
Figure 15. Product Picture of NDIR Refrigerant Gases Sensors
Figure 16. Product Picture of NDIR Ethylene Gases Sensors
Figure 17. Product Picture of NDIR SF6 Infrared Sensors
Figure 18. Product Picture of Others
Figure 19. Global Double Wavelength NDIR Sensor Sales Market Share by Type in 2026
Figure 20. Global Double Wavelength NDIR Sensor Revenue Market Share by Type (2021-2026)
Figure 21. Double Wavelength NDIR Sensor Consumed in Industrial
Figure 22. Global Double Wavelength NDIR Sensor Market: Industrial (2021-2026) & (K Units)
Figure 23. Double Wavelength NDIR Sensor Consumed in Environmental Protection
Figure 24. Global Double Wavelength NDIR Sensor Market: Environmental Protection (2021-2026) & (K Units)
Figure 25. Double Wavelength NDIR Sensor Consumed in Pharmaceuticals
Figure 26. Global Double Wavelength NDIR Sensor Market: Pharmaceuticals

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(2021-2026) & (K Units)
Figure 27. Double Wavelength NDIR Sensor Consumed in Household
Figure 28. Global Double Wavelength NDIR Sensor Market: Household (2021-2026) & (K Units)
Figure 29. Double Wavelength NDIR Sensor Consumed in Others
Figure 30. Global Double Wavelength NDIR Sensor Market: Others (2021-2026) & (K Units)
Figure 31. Global Double Wavelength NDIR Sensor Sale Market Share by Application (2025)
Figure 32. Global Double Wavelength NDIR Sensor Revenue Market Share by Application in 2026
Figure 33. Double Wavelength NDIR Sensor Sales by Company in 2026 (K Units)
Figure 34. Global Double Wavelength NDIR Sensor Sales Market Share by Company in 2026
Figure 35. Double Wavelength NDIR Sensor Revenue by Company in 2026 ($ millions)
Figure 36. Global Double Wavelength NDIR Sensor Revenue Market Share by Company in 2026
Figure 37. Global Double Wavelength NDIR Sensor Sales Market Share by Geographic Region (2021-2026)
Figure 38. Global Double Wavelength NDIR Sensor Revenue Market Share by Geographic Region in 2026
Figure 39. Americas Double Wavelength NDIR Sensor Sales 2021-2026 (K Units)
Figure 40. Americas Double Wavelength NDIR Sensor Revenue 2021-2026 ($ millions)
Figure 41. APAC Double Wavelength NDIR Sensor Sales 2021-2026 (K Units)
Figure 42. APAC Double Wavelength NDIR Sensor Revenue 2021-2026 ($ millions)
Figure 43. Europe Double Wavelength NDIR Sensor Sales 2021-2026 (K Units)
Figure 44. Europe Double Wavelength NDIR Sensor Revenue 2021-2026 ($ millions)
Figure 45. Middle East & Africa Double Wavelength NDIR Sensor Sales 2021-2026 (K Units)
Figure 46. Middle East & Africa Double Wavelength NDIR Sensor Revenue 2021-2026 ($ millions)
Figure 47. Americas Double Wavelength NDIR Sensor Sales Market Share by Country in 2026
Figure 48. Americas Double Wavelength NDIR Sensor Revenue Market Share by Country (2021-2026)
Figure 49. Americas Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
Figure 50. Americas Double Wavelength NDIR Sensor Sales Market Share by Application (2021-2026)

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Figure 51. United States Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 52. Canada Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 53. Mexico Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 54. Brazil Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 55. APAC Double Wavelength NDIR Sensor Sales Market Share by Region in 2026
Figure 56. APAC Double Wavelength NDIR Sensor Revenue Market Share by Region (2021-2026)
Figure 57. APAC Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
Figure 58. APAC Double Wavelength NDIR Sensor Sales Market Share by Application (2021-2026)
Figure 59. China Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 60. Japan Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 61. South Korea Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 62. Southeast Asia Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 63. India Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 64. Australia Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 65. China Taiwan Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 66. Europe Double Wavelength NDIR Sensor Sales Market Share by Country in 2026
Figure 67. Europe Double Wavelength NDIR Sensor Revenue Market Share by Country (2021-2026)
Figure 68. Europe Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
Figure 69. Europe Double Wavelength NDIR Sensor Sales Market Share by Application (2021-2026)
Figure 70. Germany Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($

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millions)
Figure 71. France Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 72. UK Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 73. Italy Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 74. Russia Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 75. Middle East & Africa Double Wavelength NDIR Sensor Sales Market Share by Country (2021-2026)
Figure 76. Middle East & Africa Double Wavelength NDIR Sensor Sales Market Share by Type (2021-2026)
Figure 77. Middle East & Africa Double Wavelength NDIR Sensor Sales Market Share by Application (2021-2026)
Figure 78. Egypt Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 79. South Africa Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 80. Israel Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 81. Turkey Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 82. GCC Countries Double Wavelength NDIR Sensor Revenue Growth 2021-2026 ($ millions)
Figure 83. Manufacturing Cost Structure Analysis of Double Wavelength NDIR Sensor in 2026
Figure 84. Manufacturing Process Analysis of Double Wavelength NDIR Sensor
Figure 85. Industry Chain Structure of Double Wavelength NDIR Sensor
Figure 86. Channels of Distribution
Figure 87. Global Double Wavelength NDIR Sensor Sales Market Forecast by Region (2027-2032)
Figure 88. Global Double Wavelength NDIR Sensor Revenue Market Share Forecast by Region (2027-2032)
Figure 89. Global Double Wavelength NDIR Sensor Sales Market Share Forecast by Type (2027-2032)
Figure 90. Global Double Wavelength NDIR Sensor Revenue Market Share Forecast by Type (2027-2032)
Figure 91. Global Double Wavelength NDIR Sensor Sales Market Share Forecast by

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Application (2027-2032)

Figure 92. Global Double Wavelength NDIR Sensor Revenue Market Share Forecast by Application (2027-2032)

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