

Global Infrared Gas Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Gas Sensor market size was valued at USD 481.4 million in 2023 and is forecast to a readjusted size of USD 618.2 million by 2030 with a CAGR of 3.6% during review period.

Infrared Gas Sensors utilize only part of the infrared spectrum, corresponding to wavelengths which are absorbed by the gas to be detected. The optical bandwidth of a laser source is sufficiently narrow for it to be used directly, but with wideband sources such as thermal sources or even LED's some additional wavelength selection in the optical path is required to achieve usable sensitivity and selectivity. The optical bandwidth of a sensor should ideally be matched to the absorption band of the gas (matching system bandwidth to the information carrying bandwidth) which is typically in the tens or low hundreds of nanometers.

Wavelength selection can be achieved using prisms or diffraction gratings, these being termed dispersive systems since they separate wavelengths spatially. Alternatively, a non-dispersive element may be used such as a multilayer thin film filter.

Nowadays commercial single gas IR gas sensors, as opposed to analytical instruments, are all based on NDIR techniques.

Europe is the largest Infrared Gas Sensor market with about 43% market share. North America is follower, accounting for about 23% market share.

The key players are Alphasense, CityTechnology Ltd, Drager, GSS, GE, Senseair, Dynament, SGX Sensortech (IS), SmartGAS, Mipex, Clairair, Heimann, M-U-T,

Edinburgh Sensors, Hanwei, NE Sensor etc. Top 3 companies occupied about 33% market share.

The Global Info Research report includes an overview of the development of the Infrared Gas Sensor industry chain, the market status of Industrial (CO₂, Combustible Gases), Residential (CO₂, Combustible Gases), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Infrared Gas Sensor.

Regionally, the report analyzes the Infrared Gas Sensor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Infrared Gas Sensor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Infrared Gas Sensor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Infrared Gas Sensor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., CO₂, Combustible Gases).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Infrared Gas Sensor market.

Regional Analysis: The report involves examining the Infrared Gas Sensor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future

projections and forecasts for the Infrared Gas Sensor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Infrared Gas Sensor:

Company Analysis: Report covers individual Infrared Gas Sensor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Infrared Gas Sensor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Residential).

Technology Analysis: Report covers specific technologies relevant to Infrared Gas Sensor. It assesses the current state, advancements, and potential future developments in Infrared Gas Sensor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Infrared Gas Sensor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Infrared Gas Sensor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

CO2

Combustible Gases

Others

Market segment by Application

Industrial

Residential

Major players covered

Alphasense

CityTechnology Ltd

Drager

GSS

GE

Senseair

Dynament

SGX Sensortech (IS)

SmartGAS

Mipex

Clairair

Heimann

M-U-T

Edinburgh Sensors

Hanwei

NE Sensor

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 Infrared Gas Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Gas Sensor, with price, sales, revenue and global market share of Infrared Gas Sensor from 2019 to 2024.

Chapter 3, the Infrared Gas Sensor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Gas Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Infrared Gas Sensor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Infrared Gas Sensor.

Chapter 14 and 15, to describe Infrared Gas Sensor sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Infrared Gas Sensor
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Infrared Gas Sensor Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 CO2
 - 1.3.3 Combustible Gases
 - 1.3.4 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Infrared Gas Sensor Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Industrial
 - 1.4.3 Residential
- 1.5 Global Infrared Gas Sensor Market Size & Forecast
 - 1.5.1 Global Infrared Gas Sensor Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Infrared Gas Sensor Sales Quantity (2019-2030)
 - 1.5.3 Global Infrared Gas Sensor Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 Alphasense
 - 2.1.1 Alphasense Details
 - 2.1.2 Alphasense Major Business
 - 2.1.3 Alphasense Infrared Gas Sensor Product and Services
 - 2.1.4 Alphasense Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Alphasense Recent Developments/Updates
- 2.2 CityTechnology Ltd
 - 2.2.1 CityTechnology Ltd Details
 - 2.2.2 CityTechnology Ltd Major Business
 - 2.2.3 CityTechnology Ltd Infrared Gas Sensor Product and Services
 - 2.2.4 CityTechnology Ltd Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.2.5 CityTechnology Ltd Recent Developments/Updates
- 2.3 Drager

- 2.3.1 Drager Details
- 2.3.2 Drager Major Business
- 2.3.3 Drager Infrared Gas Sensor Product and Services
- 2.3.4 Drager Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.3.5 Drager Recent Developments/Updates
- 2.4 GSS
 - 2.4.1 GSS Details
 - 2.4.2 GSS Major Business
 - 2.4.3 GSS Infrared Gas Sensor Product and Services
 - 2.4.4 GSS Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 GSS Recent Developments/Updates
- 2.5 GE
 - 2.5.1 GE Details
 - 2.5.2 GE Major Business
 - 2.5.3 GE Infrared Gas Sensor Product and Services
 - 2.5.4 GE Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 GE Recent Developments/Updates
- 2.6 Senseair
 - 2.6.1 Senseair Details
 - 2.6.2 Senseair Major Business
 - 2.6.3 Senseair Infrared Gas Sensor Product and Services
 - 2.6.4 Senseair Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.6.5 Senseair Recent Developments/Updates
- 2.7 Dynamant
 - 2.7.1 Dynamant Details
 - 2.7.2 Dynamant Major Business
 - 2.7.3 Dynamant Infrared Gas Sensor Product and Services
 - 2.7.4 Dynamant Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.7.5 Dynamant Recent Developments/Updates
- 2.8 SGX Sensortech (IS)
 - 2.8.1 SGX Sensortech (IS) Details
 - 2.8.2 SGX Sensortech (IS) Major Business
 - 2.8.3 SGX Sensortech (IS) Infrared Gas Sensor Product and Services
 - 2.8.4 SGX Sensortech (IS) Infrared Gas Sensor Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 SGX Sensortech (IS) Recent Developments/Updates

2.9 SmartGAS

2.9.1 SmartGAS Details

2.9.2 SmartGAS Major Business

2.9.3 SmartGAS Infrared Gas Sensor Product and Services

2.9.4 SmartGAS Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 SmartGAS Recent Developments/Updates

2.10 Mipex

2.10.1 Mipex Details

2.10.2 Mipex Major Business

2.10.3 Mipex Infrared Gas Sensor Product and Services

2.10.4 Mipex Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Mipex Recent Developments/Updates

2.11 Clairair

2.11.1 Clairair Details

2.11.2 Clairair Major Business

2.11.3 Clairair Infrared Gas Sensor Product and Services

2.11.4 Clairair Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Clairair Recent Developments/Updates

2.12 Heimann

2.12.1 Heimann Details

2.12.2 Heimann Major Business

2.12.3 Heimann Infrared Gas Sensor Product and Services

2.12.4 Heimann Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Heimann Recent Developments/Updates

2.13 M-U-T

2.13.1 M-U-T Details

2.13.2 M-U-T Major Business

2.13.3 M-U-T Infrared Gas Sensor Product and Services

2.13.4 M-U-T Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 M-U-T Recent Developments/Updates

2.14 Edinburgh Sensors

2.14.1 Edinburgh Sensors Details

- 2.14.2 Edinburgh Sensors Major Business
- 2.14.3 Edinburgh Sensors Infrared Gas Sensor Product and Services
- 2.14.4 Edinburgh Sensors Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.14.5 Edinburgh Sensors Recent Developments/Updates
- 2.15 Hanwei
 - 2.15.1 Hanwei Details
 - 2.15.2 Hanwei Major Business
 - 2.15.3 Hanwei Infrared Gas Sensor Product and Services
 - 2.15.4 Hanwei Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.15.5 Hanwei Recent Developments/Updates
- 2.16 NE Sensor
 - 2.16.1 NE Sensor Details
 - 2.16.2 NE Sensor Major Business
 - 2.16.3 NE Sensor Infrared Gas Sensor Product and Services
 - 2.16.4 NE Sensor Infrared Gas Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.16.5 NE Sensor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: INFRARED GAS SENSOR BY MANUFACTURER

- 3.1 Global Infrared Gas Sensor Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Infrared Gas Sensor Revenue by Manufacturer (2019-2024)
- 3.3 Global Infrared Gas Sensor Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Infrared Gas Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 Infrared Gas Sensor Manufacturer Market Share in 2023
 - 3.4.2 Top 6 Infrared Gas Sensor Manufacturer Market Share in 2023
- 3.5 Infrared Gas Sensor Market: Overall Company Footprint Analysis
 - 3.5.1 Infrared Gas Sensor Market: Region Footprint
 - 3.5.2 Infrared Gas Sensor Market: Company Product Type Footprint
 - 3.5.3 Infrared Gas Sensor Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Infrared Gas Sensor Market Size by Region

4.1.1 Global Infrared Gas Sensor Sales Quantity by Region (2019-2030)

4.1.2 Global Infrared Gas Sensor Consumption Value by Region (2019-2030)

4.1.3 Global Infrared Gas Sensor Average Price by Region (2019-2030)

4.2 North America Infrared Gas Sensor Consumption Value (2019-2030)

4.3 Europe Infrared Gas Sensor Consumption Value (2019-2030)

4.4 Asia-Pacific Infrared Gas Sensor Consumption Value (2019-2030)

4.5 South America Infrared Gas Sensor Consumption Value (2019-2030)

4.6 Middle East and Africa Infrared Gas Sensor Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Infrared Gas Sensor Sales Quantity by Type (2019-2030)

5.2 Global Infrared Gas Sensor Consumption Value by Type (2019-2030)

5.3 Global Infrared Gas Sensor Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Infrared Gas Sensor Sales Quantity by Application (2019-2030)

6.2 Global Infrared Gas Sensor Consumption Value by Application (2019-2030)

6.3 Global Infrared Gas Sensor Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America Infrared Gas Sensor Sales Quantity by Type (2019-2030)

7.2 North America Infrared Gas Sensor Sales Quantity by Application (2019-2030)

7.3 North America Infrared Gas Sensor Market Size by Country

7.3.1 North America Infrared Gas Sensor Sales Quantity by Country (2019-2030)

7.3.2 North America Infrared Gas Sensor Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Infrared Gas Sensor Sales Quantity by Type (2019-2030)

8.2 Europe Infrared Gas Sensor Sales Quantity by Application (2019-2030)

8.3 Europe Infrared Gas Sensor Market Size by Country

8.3.1 Europe Infrared Gas Sensor Sales Quantity by Country (2019-2030)

8.3.2 Europe Infrared Gas Sensor Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Infrared Gas Sensor Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Infrared Gas Sensor Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Infrared Gas Sensor Market Size by Region

9.3.1 Asia-Pacific Infrared Gas Sensor Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Infrared Gas Sensor Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Infrared Gas Sensor Sales Quantity by Type (2019-2030)

10.2 South America Infrared Gas Sensor Sales Quantity by Application (2019-2030)

10.3 South America Infrared Gas Sensor Market Size by Country

10.3.1 South America Infrared Gas Sensor Sales Quantity by Country (2019-2030)

10.3.2 South America Infrared Gas Sensor Consumption Value by Country
(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Infrared Gas Sensor Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Infrared Gas Sensor Sales Quantity by Application
(2019-2030)

11.3 Middle East & Africa Infrared Gas Sensor Market Size by Country

11.3.1 Middle East & Africa Infrared Gas Sensor Sales Quantity by Country

(2019-2030)

11.3.2 Middle East & Africa Infrared Gas Sensor Consumption Value by Country

(2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Infrared Gas Sensor Market Drivers

12.2 Infrared Gas Sensor Market Restraints

12.3 Infrared Gas Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Infrared Gas Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Infrared Gas Sensor

13.3 Infrared Gas Sensor Production Process

13.4 Infrared Gas Sensor Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Infrared Gas Sensor Typical Distributors

14.3 Infrared Gas Sensor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Infrared Gas Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Infrared Gas Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Alphasense Basic Information, Manufacturing Base and Competitors

Table 4. Alphasense Major Business

Table 5. Alphasense Infrared Gas Sensor Product and Services

Table 6. Alphasense Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Alphasense Recent Developments/Updates

Table 8. CityTechnology Ltd Basic Information, Manufacturing Base and Competitors

Table 9. CityTechnology Ltd Major Business

Table 10. CityTechnology Ltd Infrared Gas Sensor Product and Services

Table 11. CityTechnology Ltd Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. CityTechnology Ltd Recent Developments/Updates

Table 13. Drager Basic Information, Manufacturing Base and Competitors

Table 14. Drager Major Business

Table 15. Drager Infrared Gas Sensor Product and Services

Table 16. Drager Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Drager Recent Developments/Updates

Table 18. GSS Basic Information, Manufacturing Base and Competitors

Table 19. GSS Major Business

Table 20. GSS Infrared Gas Sensor Product and Services

Table 21. GSS Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. GSS Recent Developments/Updates

Table 23. GE Basic Information, Manufacturing Base and Competitors

Table 24. GE Major Business

Table 25. GE Infrared Gas Sensor Product and Services

Table 26. GE Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. GE Recent Developments/Updates

Table 28. Senseair Basic Information, Manufacturing Base and Competitors

- Table 29. Senseair Major Business
- Table 30. Senseair Infrared Gas Sensor Product and Services
- Table 31. Senseair Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Senseair Recent Developments/Updates
- Table 33. Dynament Basic Information, Manufacturing Base and Competitors
- Table 34. Dynament Major Business
- Table 35. Dynament Infrared Gas Sensor Product and Services
- Table 36. Dynament Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Dynament Recent Developments/Updates
- Table 38. SGX Sensortech (IS) Basic Information, Manufacturing Base and Competitors
- Table 39. SGX Sensortech (IS) Major Business
- Table 40. SGX Sensortech (IS) Infrared Gas Sensor Product and Services
- Table 41. SGX Sensortech (IS) Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. SGX Sensortech (IS) Recent Developments/Updates
- Table 43. SmartGAS Basic Information, Manufacturing Base and Competitors
- Table 44. SmartGAS Major Business
- Table 45. SmartGAS Infrared Gas Sensor Product and Services
- Table 46. SmartGAS Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. SmartGAS Recent Developments/Updates
- Table 48. Mipex Basic Information, Manufacturing Base and Competitors
- Table 49. Mipex Major Business
- Table 50. Mipex Infrared Gas Sensor Product and Services
- Table 51. Mipex Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. Mipex Recent Developments/Updates
- Table 53. Clairair Basic Information, Manufacturing Base and Competitors
- Table 54. Clairair Major Business
- Table 55. Clairair Infrared Gas Sensor Product and Services
- Table 56. Clairair Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. Clairair Recent Developments/Updates
- Table 58. Heimann Basic Information, Manufacturing Base and Competitors
- Table 59. Heimann Major Business
- Table 60. Heimann Infrared Gas Sensor Product and Services
- Table 61. Heimann Infrared Gas Sensor Sales Quantity (K Units), Average Price

(USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Heimann Recent Developments/Updates

Table 63. M-U-T Basic Information, Manufacturing Base and Competitors

Table 64. M-U-T Major Business

Table 65. M-U-T Infrared Gas Sensor Product and Services

Table 66. M-U-T Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. M-U-T Recent Developments/Updates

Table 68. Edinburgh Sensors Basic Information, Manufacturing Base and Competitors

Table 69. Edinburgh Sensors Major Business

Table 70. Edinburgh Sensors Infrared Gas Sensor Product and Services

Table 71. Edinburgh Sensors Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Edinburgh Sensors Recent Developments/Updates

Table 73. Hanwei Basic Information, Manufacturing Base and Competitors

Table 74. Hanwei Major Business

Table 75. Hanwei Infrared Gas Sensor Product and Services

Table 76. Hanwei Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Hanwei Recent Developments/Updates

Table 78. NE Sensor Basic Information, Manufacturing Base and Competitors

Table 79. NE Sensor Major Business

Table 80. NE Sensor Infrared Gas Sensor Product and Services

Table 81. NE Sensor Infrared Gas Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. NE Sensor Recent Developments/Updates

Table 83. Global Infrared Gas Sensor Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 84. Global Infrared Gas Sensor Revenue by Manufacturer (2019-2024) & (USD Million)

Table 85. Global Infrared Gas Sensor Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 86. Market Position of Manufacturers in Infrared Gas Sensor, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 87. Head Office and Infrared Gas Sensor Production Site of Key Manufacturer

Table 88. Infrared Gas Sensor Market: Company Product Type Footprint

Table 89. Infrared Gas Sensor Market: Company Product Application Footprint

Table 90. Infrared Gas Sensor New Market Entrants and Barriers to Market Entry

Table 91. Infrared Gas Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 92. Global Infrared Gas Sensor Sales Quantity by Region (2019-2024) & (K Units)

Table 93. Global Infrared Gas Sensor Sales Quantity by Region (2025-2030) & (K Units)

Table 94. Global Infrared Gas Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 95. Global Infrared Gas Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 96. Global Infrared Gas Sensor Average Price by Region (2019-2024) & (USD/Unit)

Table 97. Global Infrared Gas Sensor Average Price by Region (2025-2030) & (USD/Unit)

Table 98. Global Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 99. Global Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 100. Global Infrared Gas Sensor Consumption Value by Type (2019-2024) & (USD Million)

Table 101. Global Infrared Gas Sensor Consumption Value by Type (2025-2030) & (USD Million)

Table 102. Global Infrared Gas Sensor Average Price by Type (2019-2024) & (USD/Unit)

Table 103. Global Infrared Gas Sensor Average Price by Type (2025-2030) & (USD/Unit)

Table 104. Global Infrared Gas Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 105. Global Infrared Gas Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 106. Global Infrared Gas Sensor Consumption Value by Application (2019-2024) & (USD Million)

Table 107. Global Infrared Gas Sensor Consumption Value by Application (2025-2030) & (USD Million)

Table 108. Global Infrared Gas Sensor Average Price by Application (2019-2024) & (USD/Unit)

Table 109. Global Infrared Gas Sensor Average Price by Application (2025-2030) & (USD/Unit)

Table 110. North America Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 111. North America Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 112. North America Infrared Gas Sensor Sales Quantity by Application

(2019-2024) & (K Units)

Table 113. North America Infrared Gas Sensor Sales Quantity by Application

(2025-2030) & (K Units)

Table 114. North America Infrared Gas Sensor Sales Quantity by Country (2019-2024) & (K Units)

Table 115. North America Infrared Gas Sensor Sales Quantity by Country (2025-2030) & (K Units)

Table 116. North America Infrared Gas Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 117. North America Infrared Gas Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 118. Europe Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 119. Europe Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 120. Europe Infrared Gas Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 121. Europe Infrared Gas Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 122. Europe Infrared Gas Sensor Sales Quantity by Country (2019-2024) & (K Units)

Table 123. Europe Infrared Gas Sensor Sales Quantity by Country (2025-2030) & (K Units)

Table 124. Europe Infrared Gas Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 125. Europe Infrared Gas Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 126. Asia-Pacific Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 127. Asia-Pacific Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 128. Asia-Pacific Infrared Gas Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 129. Asia-Pacific Infrared Gas Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 130. Asia-Pacific Infrared Gas Sensor Sales Quantity by Region (2019-2024) & (K Units)

Table 131. Asia-Pacific Infrared Gas Sensor Sales Quantity by Region (2025-2030) & (K Units)

Table 132. Asia-Pacific Infrared Gas Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 133. Asia-Pacific Infrared Gas Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 134. South America Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 135. South America Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 136. South America Infrared Gas Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 137. South America Infrared Gas Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 138. South America Infrared Gas Sensor Sales Quantity by Country (2019-2024) & (K Units)

Table 139. South America Infrared Gas Sensor Sales Quantity by Country (2025-2030) & (K Units)

Table 140. South America Infrared Gas Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 141. South America Infrared Gas Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 142. Middle East & Africa Infrared Gas Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 143. Middle East & Africa Infrared Gas Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 144. Middle East & Africa Infrared Gas Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 145. Middle East & Africa Infrared Gas Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 146. Middle East & Africa Infrared Gas Sensor Sales Quantity by Region (2019-2024) & (K Units)

Table 147. Middle East & Africa Infrared Gas Sensor Sales Quantity by Region (2025-2030) & (K Units)

Table 148. Middle East & Africa Infrared Gas Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 149. Middle East & Africa Infrared Gas Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 150. Infrared Gas Sensor Raw Material

Table 151. Key Manufacturers of Infrared Gas Sensor Raw Materials

Table 152. Infrared Gas Sensor Typical Distributors

Table 153. Infrared Gas Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Infrared Gas Sensor Picture

Figure 2. Global Infrared Gas Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Infrared Gas Sensor Consumption Value Market Share by Type in 2023

Figure 4. CO2 Examples

Figure 5. Combustible Gases Examples

Figure 6. Others Examples

Figure 7. Global Infrared Gas Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Infrared Gas Sensor Consumption Value Market Share by Application in 2023

Figure 9. Industrial Examples

Figure 10. Residential Examples

Figure 11. Global Infrared Gas Sensor Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 12. Global Infrared Gas Sensor Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 13. Global Infrared Gas Sensor Sales Quantity (2019-2030) & (K Units)

Figure 14. Global Infrared Gas Sensor Average Price (2019-2030) & (USD/Unit)

Figure 15. Global Infrared Gas Sensor Sales Quantity Market Share by Manufacturer in 2023

Figure 16. Global Infrared Gas Sensor Consumption Value Market Share by Manufacturer in 2023

Figure 17. Producer Shipments of Infrared Gas Sensor by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 18. Top 3 Infrared Gas Sensor Manufacturer (Consumption Value) Market Share in 2023

Figure 19. Top 6 Infrared Gas Sensor Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Global Infrared Gas Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 21. Global Infrared Gas Sensor Consumption Value Market Share by Region (2019-2030)

Figure 22. North America Infrared Gas Sensor Consumption Value (2019-2030) & (USD

Million)

Figure 23. Europe Infrared Gas Sensor Consumption Value (2019-2030) & (USD Million)

Figure 24. Asia-Pacific Infrared Gas Sensor Consumption Value (2019-2030) & (USD Million)

Figure 25. South America Infrared Gas Sensor Consumption Value (2019-2030) & (USD Million)

Figure 26. Middle East & Africa Infrared Gas Sensor Consumption Value (2019-2030) & (USD Million)

Figure 27. Global Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 28. Global Infrared Gas Sensor Consumption Value Market Share by Type (2019-2030)

Figure 29. Global Infrared Gas Sensor Average Price by Type (2019-2030) & (USD/Unit)

Figure 30. Global Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 31. Global Infrared Gas Sensor Consumption Value Market Share by Application (2019-2030)

Figure 32. Global Infrared Gas Sensor Average Price by Application (2019-2030) & (USD/Unit)

Figure 33. North America Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 34. North America Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 35. North America Infrared Gas Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 36. North America Infrared Gas Sensor Consumption Value Market Share by Country (2019-2030)

Figure 37. United States Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 38. Canada Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Mexico Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Europe Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 41. Europe Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 42. Europe Infrared Gas Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 43. Europe Infrared Gas Sensor Consumption Value Market Share by Country (2019-2030)

Figure 44. Germany Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. France Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. United Kingdom Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. Russia Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Italy Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Asia-Pacific Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 50. Asia-Pacific Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 51. Asia-Pacific Infrared Gas Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 52. Asia-Pacific Infrared Gas Sensor Consumption Value Market Share by Region (2019-2030)

Figure 53. China Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Japan Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Korea Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. India Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Southeast Asia Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Australia Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. South America Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 60. South America Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 61. South America Infrared Gas Sensor Sales Quantity Market Share by Country

(2019-2030)

Figure 62. South America Infrared Gas Sensor Consumption Value Market Share by Country (2019-2030)

Figure 63. Brazil Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Argentina Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Middle East & Africa Infrared Gas Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 66. Middle East & Africa Infrared Gas Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 67. Middle East & Africa Infrared Gas Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 68. Middle East & Africa Infrared Gas Sensor Consumption Value Market Share by Region (2019-2030)

Figure 69. Turkey Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Egypt Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Saudi Arabia Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. South Africa Infrared Gas Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Infrared Gas Sensor Market Drivers

Figure 74. Infrared Gas Sensor Market Restraints

Figure 75. Infrared Gas Sensor Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Infrared Gas Sensor in 2023

Figure 78. Manufacturing Process Analysis of Infrared Gas Sensor

Figure 79. Infrared Gas Sensor Industrial Chain

Figure 80. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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