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Global Infrared Array Sensors for Smart Building Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Array Sensors for Smart Building market size was valued at US$ 278 million in 2025 and is forecast to a readjusted size of US$ 583 million by 2032 with a CAGR of 11.0% during review period.

Infrared array sensors for smart buildings are low-resolution thermal sensing devices composed of multiple infrared pixels arranged in a grid (such as 8?8, 16?16, or 32?32) that generate spatial heat maps rather than visual images, enabling privacy-preserving detection of occupancy, movement patterns, and abnormal temperature conditions for building automation. In the industry chain, the upstream includes semiconductor and materials suppliers providing MEMS or thermopile sensing elements, readout ICs, optics (lenses/windows), substrates, and packaging materials; algorithm IP (presence, counting, motion vectors) and firmware tools also sit upstream. The midstream consists of sensor manufacturers and module makers that integrate the array, optics, signal processing, and digital interfaces (I?C/SPI), often adding onboard algorithms to deliver plug-and-play modules for IoT deployment. The downstream spans system integrators, building automation OEMs, and solution providers who embed these sensors into HVAC controllers, smart lighting, ceiling sensors, and space-analytics platforms, ultimately serving end users such as commercial offices, schools, hospitals, retail spaces, and smart residential buildings. Value creation across the chain centers on balancing accuracy, power consumption, cost, and privacy compliance, with demand driven by energy-efficiency regulations, ESG goals, and the need for reliable occupancy data without cameras.

1) Strong Demand for Energy Efficiency and Regulatory Compliance

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One of the most significant drivers for infrared array sensors in smart buildings is the increasing global emphasis on energy efficiency and regulatory compliance. Governments and regulatory bodies?particularly in Europe through frameworks such as the European Commission?s Energy Performance of Buildings Directive (EPBD)?are mandating stricter building energy performance standards. Infrared array sensors enable precise occupancy detection and thermal mapping, allowing HVAC and lighting systems to operate only when and where needed. Compared to traditional PIR sensors, infrared arrays provide more granular spatial data, improving energy savings in large commercial buildings, offices, and public infrastructure. As building owners seek to reduce operational costs and carbon footprints, adoption of advanced sensing technologies is accelerating.

2) Rapid Growth of Smart Building Automation and IoT Integration

The expansion of smart building ecosystems and IoT-based automation is a major driver for infrared array sensor adoption. Modern buildings increasingly integrate systems for HVAC control, lighting automation, security, and space utilization analytics, all of which rely on accurate sensing technologies. Infrared array sensors provide advantages such as multi-zone detection, people counting, and activity recognition without requiring cameras, addressing both performance and privacy concerns. Leading technology providers like Panasonic, Omron, and Teledyne FLIR are developing compact, high-resolution IR array modules tailored for smart building applications. The convergence of edge computing and sensor fusion (IR + mmWave + AI analytics) is further enhancing the value proposition, driving widespread deployment in commercial and institutional buildings.

3) Increasing Focus on Occupant Comfort, Safety, and Privacy-Preserving Sensing

Beyond energy savings, there is growing demand for technologies that enhance occupant comfort, safety, and privacy, which is significantly boosting the adoption of infrared array sensors. These sensors can detect temperature distribution, human presence, and movement patterns without capturing identifiable images, making them highly suitable for privacy-sensitive environments such as offices, hospitals, schools, and public facilities. Applications include adaptive HVAC control, smart lighting, fall detection, fire detection, and crowd monitoring. Compared with camera-based systems, infrared arrays offer a strong balance between functionality and compliance with data privacy regulations. This trend is particularly important in regions with strict data protection laws, where non-visual sensing technologies are increasingly preferred for

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smart building deployments.

This report is a detailed and comprehensive analysis for global Infrared Array Sensors for Smart Building 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 Infrared Array Sensors for Smart Building market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Infrared Array Sensors for Smart Building market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Infrared Array Sensors for Smart Building market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Infrared Array Sensors for Smart Building market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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 Infrared Array Sensors for Smart Building

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Infrared Array Sensors for Smart Building 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 Melexis, Teledyne FLIR, Panasonic, Omron Corporation, Excelitas Technologies, Heimann Sensor, Azbil Corporation, Amphemol, Seiko NPC, KODENSHI, etc.

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

Market Segmentation

Infrared Array Sensors for Smart Building market is split by Type and by Application. For the period 2021-2032, 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

Low-Resolution

Medium-Resolution

High-Resolution

Market segment by Product

Thermopile Array Sensor

Pyroelectric Array Sensor

Other

Market segment by Technology

Cooled IR Sensor

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Uncooled IR Sensor

Market segment by Application

Smart Lighting

HVAC

Safety and Fire Detection

Occupancy Detection

Others

Major players covered

Melexis

Teledyne FLIR

Panasonic

Omron Corporation

Excelitas Technologies

Heimann Sensor

Azbil Corporation

Amphemol

Seiko NPC

KODENSHI

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Orisystech

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 Array Sensors for Smart Building product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Array Sensors for Smart Building, with price, sales quantity, revenue, and global market share of Infrared Array Sensors for Smart Building from 2021 to 2026.

Chapter 3, the Infrared Array Sensors for Smart Building competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Array Sensors for Smart Building breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021

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to 2026.and Infrared Array Sensors for Smart Building market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Array Sensors for Smart Building.

Chapter 14 and 15, to describe Infrared Array Sensors for Smart Building sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Infrared Array Sensors for Smart Building Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Low-Resolution
  1.3.3 Medium-Resolution
  1.3.4 High-Resolution
1.4 Market Analysis by Product
  1.4.1 Overview: Global Infrared Array Sensors for Smart Building Consumption Value by Product: 2021 Versus 2025 Versus 2032
  1.4.2 Thermopile Array Sensor
  1.4.3 Pyroelectric Array Sensor
  1.4.4 Other
1.5 Market Analysis by Technology
  1.5.1 Overview: Global Infrared Array Sensors for Smart Building Consumption Value by Technology: 2021 Versus 2025 Versus 2032
  1.5.2 Cooled IR Sensor
  1.5.3 Uncooled IR Sensor
1.6 Market Analysis by Application
  1.6.1 Overview: Global Infrared Array Sensors for Smart Building Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 Smart Lighting
  1.6.3 HVAC
  1.6.4 Safety and Fire Detection
  1.6.5 Occupancy Detection
  1.6.6 Others
1.7 Global Infrared Array Sensors for Smart Building Market Size & Forecast
  1.7.1 Global Infrared Array Sensors for Smart Building Consumption Value (2021 & 2025 & 2032)
  1.7.2 Global Infrared Array Sensors for Smart Building Sales Quantity (2021-2032)
  1.7.3 Global Infrared Array Sensors for Smart Building Average Price (2021-2032)

2 MANUFACTURERS PROFILES

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2.1 Melexis
2.1.1 Melexis Details
2.1.2 Melexis Major Business
2.1.3 Melexis Infrared Array Sensors for Smart Building Product and Services
2.1.4 Melexis Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Melexis Recent Developments/Updates
2.2 Teledyne FLIR
2.2.1 Teledyne FLIR Details
2.2.2 Teledyne FLIR Major Business
2.2.3 Teledyne FLIR Infrared Array Sensors for Smart Building Product and Services
2.2.4 Teledyne FLIR Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Teledyne FLIR Recent Developments/Updates
2.3 Panasonic
2.3.1 Panasonic Details
2.3.2 Panasonic Major Business
2.3.3 Panasonic Infrared Array Sensors for Smart Building Product and Services
2.3.4 Panasonic Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Panasonic Recent Developments/Updates
2.4 Omron Corporation
2.4.1 Omron Corporation Details
2.4.2 Omron Corporation Major Business
2.4.3 Omron Corporation Infrared Array Sensors for Smart Building Product and Services
2.4.4 Omron Corporation Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Omron Corporation Recent Developments/Updates
2.5 Excelitas Technologies
2.5.1 Excelitas Technologies Details
2.5.2 Excelitas Technologies Major Business
2.5.3 Excelitas Technologies Infrared Array Sensors for Smart Building Product and Services
2.5.4 Excelitas Technologies Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Excelitas Technologies Recent Developments/Updates
2.6 Heimann Sensor
2.6.1 Heimann Sensor Details

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2.6.2 Heimann Sensor Major Business
2.6.3 Heimann Sensor Infrared Array Sensors for Smart Building Product and Services
2.6.4 Heimann Sensor Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Heimann Sensor Recent Developments/Updates
2.7 Azbil Corporation
2.7.1 Azbil Corporation Details
2.7.2 Azbil Corporation Major Business
2.7.3 Azbil Corporation Infrared Array Sensors for Smart Building Product and Services
2.7.4 Azbil Corporation Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Azbil Corporation Recent Developments/Updates
2.8 Amphemol
2.8.1 Amphemol Details
2.8.2 Amphemol Major Business
2.8.3 Amphemol Infrared Array Sensors for Smart Building Product and Services
2.8.4 Amphemol Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Amphemol Recent Developments/Updates
2.9 Seiko NPC
2.9.1 Seiko NPC Details
2.9.2 Seiko NPC Major Business
2.9.3 Seiko NPC Infrared Array Sensors for Smart Building Product and Services
2.9.4 Seiko NPC Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Seiko NPC Recent Developments/Updates
2.10 KODENSHI
2.10.1 KODENSHI Details
2.10.2 KODENSHI Major Business
2.10.3 KODENSHI Infrared Array Sensors for Smart Building Product and Services
2.10.4 KODENSHI Infrared Array Sensors for Smart Building Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 KODENSHI Recent Developments/Updates
2.11 Orisystech
2.11.1 Orisystech Details
2.11.2 Orisystech Major Business
2.11.3 Orisystech Infrared Array Sensors for Smart Building Product and Services
2.11.4 Orisystech Infrared Array Sensors for Smart Building Sales Quantity, Average

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Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Orisystech Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: INFRARED ARRAY SENSORS FOR SMART BUILDING BY MANUFACTURER

3.1 Global Infrared Array Sensors for Smart Building Sales Quantity by Manufacturer (2021-2026)
3.2 Global Infrared Array Sensors for Smart Building Revenue by Manufacturer (2021-2026)
3.3 Global Infrared Array Sensors for Smart Building Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Infrared Array Sensors for Smart Building by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Infrared Array Sensors for Smart Building Manufacturer Market Share in 2025
3.4.3 Top 6 Infrared Array Sensors for Smart Building Manufacturer Market Share in 2025
3.5 Infrared Array Sensors for Smart Building Market: Overall Company Footprint Analysis
3.5.1 Infrared Array Sensors for Smart Building Market: Region Footprint
3.5.2 Infrared Array Sensors for Smart Building Market: Company Product Type Footprint
3.5.3 Infrared Array Sensors for Smart Building 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 Array Sensors for Smart Building Market Size by Region
4.1.1 Global Infrared Array Sensors for Smart Building Sales Quantity by Region (2021-2032)
4.1.2 Global Infrared Array Sensors for Smart Building Consumption Value by Region (2021-2032)
4.1.3 Global Infrared Array Sensors for Smart Building Average Price by Region (2021-2032)
4.2 North America Infrared Array Sensors for Smart Building Consumption Value

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(2021-2032)
4.3 Europe Infrared Array Sensors for Smart Building Consumption Value (2021-2032)
4.4 Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value (2021-2032)
4.5 South America Infrared Array Sensors for Smart Building Consumption Value (2021-2032)
4.6 Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
5.2 Global Infrared Array Sensors for Smart Building Consumption Value by Type (2021-2032)
5.3 Global Infrared Array Sensors for Smart Building Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
6.2 Global Infrared Array Sensors for Smart Building Consumption Value by Application (2021-2032)
6.3 Global Infrared Array Sensors for Smart Building Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
7.2 North America Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
7.3 North America Infrared Array Sensors for Smart Building Market Size by Country
  7.3.1 North America Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2032)
  7.3.2 North America Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

7.3.4 Canada Market Size and Forecast (2021-2032)
7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
8.2 Europe Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
8.3 Europe Infrared Array Sensors for Smart Building Market Size by Country
8.3.1 Europe Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2032)
8.3.2 Europe Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2032)
8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Infrared Array Sensors for Smart Building Market Size by Region
9.3.1 Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

+357 96 030922
info@marketpublishers.com

10.1 South America Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
10.2 South America Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
10.3 South America Infrared Array Sensors for Smart Building Market Size by Country
  10.3.1 South America Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2032)
  10.3.2 South America Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2032)
  10.3.3 Brazil Market Size and Forecast (2021-2032)
  10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Infrared Array Sensors for Smart Building Market Size by Country
  11.3.1 Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2032)
  11.3.2 Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2032)
  11.3.3 Turkey Market Size and Forecast (2021-2032)
  11.3.4 Egypt Market Size and Forecast (2021-2032)
  11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Infrared Array Sensors for Smart Building Market Drivers
12.2 Infrared Array Sensors for Smart Building Market Restraints
12.3 Infrared Array Sensors for Smart Building 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

+357 96 030922
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12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Infrared Array Sensors for Smart Building and Key Manufacturers
13.2 Manufacturing Costs Percentage of Infrared Array Sensors for Smart Building
13.3 Infrared Array Sensors for Smart Building Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Infrared Array Sensors for Smart Building Typical Distributors
14.3 Infrared Array Sensors for Smart Building Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Infrared Array Sensors for Smart Building Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Infrared Array Sensors for Smart Building Consumption Value by Product, (USD Million), 2021 & 2025 & 2032
Table 3. Global Infrared Array Sensors for Smart Building Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 4. Global Infrared Array Sensors for Smart Building Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Melexis Basic Information, Manufacturing Base and Competitors
Table 6. Melexis Major Business
Table 7. Melexis Infrared Array Sensors for Smart Building Product and Services
Table 8. Melexis Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Melexis Recent Developments/Updates
Table 10. Teledyne FLIR Basic Information, Manufacturing Base and Competitors
Table 11. Teledyne FLIR Major Business
Table 12. Teledyne FLIR Infrared Array Sensors for Smart Building Product and Services
Table 13. Teledyne FLIR Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Teledyne FLIR Recent Developments/Updates
Table 15. Panasonic Basic Information, Manufacturing Base and Competitors
Table 16. Panasonic Major Business
Table 17. Panasonic Infrared Array Sensors for Smart Building Product and Services
Table 18. Panasonic Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Panasonic Recent Developments/Updates
Table 20. Omron Corporation Basic Information, Manufacturing Base and Competitors
Table 21. Omron Corporation Major Business
Table 22. Omron Corporation Infrared Array Sensors for Smart Building Product and Services
Table 23. Omron Corporation Infrared Array Sensors for Smart Building Sales Quantity

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info@marketpublishers.com

(K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Omron Corporation Recent Developments/Updates
Table 25. Excelitas Technologies Basic Information, Manufacturing Base and Competitors
Table 26. Excelitas Technologies Major Business
Table 27. Excelitas Technologies Infrared Array Sensors for Smart Building Product and Services
Table 28. Excelitas Technologies Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. Excelitas Technologies Recent Developments/Updates
Table 30. Heimann Sensor Basic Information, Manufacturing Base and Competitors
Table 31. Heimann Sensor Major Business
Table 32. Heimann Sensor Infrared Array Sensors for Smart Building Product and Services
Table 33. Heimann Sensor Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Heimann Sensor Recent Developments/Updates
Table 35. Azbil Corporation Basic Information, Manufacturing Base and Competitors
Table 36. Azbil Corporation Major Business
Table 37. Azbil Corporation Infrared Array Sensors for Smart Building Product and Services
Table 38. Azbil Corporation Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Azbil Corporation Recent Developments/Updates
Table 40. Amphemol Basic Information, Manufacturing Base and Competitors
Table 41. Amphemol Major Business
Table 42. Amphemol Infrared Array Sensors for Smart Building Product and Services
Table 43. Amphemol Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. Amphemol Recent Developments/Updates
Table 45. Seiko NPC Basic Information, Manufacturing Base and Competitors
Table 46. Seiko NPC Major Business
Table 47. Seiko NPC Infrared Array Sensors for Smart Building Product and Services
Table 48. Seiko NPC Infrared Array Sensors for Smart Building Sales Quantity (K

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info@marketpublishers.com

Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Seiko NPC Recent Developments/Updates
Table 50. KODENSHI Basic Information, Manufacturing Base and Competitors
Table 51. KODENSHI Major Business
Table 52. KODENSHI Infrared Array Sensors for Smart Building Product and Services
Table 53. KODENSHI Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. KODENSHI Recent Developments/Updates
Table 55. Orisystech Basic Information, Manufacturing Base and Competitors
Table 56. Orisystech Major Business
Table 57. Orisystech Infrared Array Sensors for Smart Building Product and Services
Table 58. Orisystech Infrared Array Sensors for Smart Building Sales Quantity (K Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Orisystech Recent Developments/Updates
Table 60. Global Infrared Array Sensors for Smart Building Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 61. Global Infrared Array Sensors for Smart Building Revenue by Manufacturer (2021-2026) & (USD Million)
Table 62. Global Infrared Array Sensors for Smart Building Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 63. Market Position of Manufacturers in Infrared Array Sensors for Smart Building, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 64. Head Office and Infrared Array Sensors for Smart Building Production Site of Key Manufacturer
Table 65. Infrared Array Sensors for Smart Building Market: Company Product Type Footprint
Table 66. Infrared Array Sensors for Smart Building Market: Company Product Application Footprint
Table 67. Infrared Array Sensors for Smart Building New Market Entrants and Barriers to Market Entry
Table 68. Infrared Array Sensors for Smart Building Mergers, Acquisition, Agreements, and Collaborations
Table 69. Global Infrared Array Sensors for Smart Building Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 70. Global Infrared Array Sensors for Smart Building Sales Quantity by Region (2021-2026) & (K Units)

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Table 71. Global Infrared Array Sensors for Smart Building Sales Quantity by Region (2027-2032) & (K Units)
Table 72. Global Infrared Array Sensors for Smart Building Consumption Value by Region (2021-2026) & (USD Million)
Table 73. Global Infrared Array Sensors for Smart Building Consumption Value by Region (2027-2032) & (USD Million)
Table 74. Global Infrared Array Sensors for Smart Building Average Price by Region (2021-2026) & (US$/Unit)
Table 75. Global Infrared Array Sensors for Smart Building Average Price by Region (2027-2032) & (US$/Unit)
Table 76. Global Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 77. Global Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 78. Global Infrared Array Sensors for Smart Building Consumption Value by Type (2021-2026) & (USD Million)
Table 79. Global Infrared Array Sensors for Smart Building Consumption Value by Type (2027-2032) & (USD Million)
Table 80. Global Infrared Array Sensors for Smart Building Average Price by Type (2021-2026) & (US$/Unit)
Table 81. Global Infrared Array Sensors for Smart Building Average Price by Type (2027-2032) & (US$/Unit)
Table 82. Global Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2026) & (K Units)
Table 83. Global Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 84. Global Infrared Array Sensors for Smart Building Consumption Value by Application (2021-2026) & (USD Million)
Table 85. Global Infrared Array Sensors for Smart Building Consumption Value by Application (2027-2032) & (USD Million)
Table 86. Global Infrared Array Sensors for Smart Building Average Price by Application (2021-2026) & (US$/Unit)
Table 87. Global Infrared Array Sensors for Smart Building Average Price by Application (2027-2032) & (US$/Unit)
Table 88. North America Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 89. North America Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 90. North America Infrared Array Sensors for Smart Building Sales Quantity by

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Application (2021-2026) & (K Units)
Table 91. North America Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 92. North America Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2026) & (K Units)
Table 93. North America Infrared Array Sensors for Smart Building Sales Quantity by Country (2027-2032) & (K Units)
Table 94. North America Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2026) & (USD Million)
Table 95. North America Infrared Array Sensors for Smart Building Consumption Value by Country (2027-2032) & (USD Million)
Table 96. Europe Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 97. Europe Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 98. Europe Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2026) & (K Units)
Table 99. Europe Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 100. Europe Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2026) & (K Units)
Table 101. Europe Infrared Array Sensors for Smart Building Sales Quantity by Country (2027-2032) & (K Units)
Table 102. Europe Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2026) & (USD Million)
Table 103. Europe Infrared Array Sensors for Smart Building Consumption Value by Country (2027-2032) & (USD Million)
Table 104. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 105. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 106. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2026) & (K Units)
Table 107. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 108. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Region (2021-2026) & (K Units)
Table 109. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity by Region (2027-2032) & (K Units)

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Table 110. Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value by Region (2021-2026) & (USD Million)
Table 111. Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value by Region (2027-2032) & (USD Million)
Table 112. South America Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 113. South America Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 114. South America Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2026) & (K Units)
Table 115. South America Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 116. South America Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2026) & (K Units)
Table 117. South America Infrared Array Sensors for Smart Building Sales Quantity by Country (2027-2032) & (K Units)
Table 118. South America Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2026) & (USD Million)
Table 119. South America Infrared Array Sensors for Smart Building Consumption Value by Country (2027-2032) & (USD Million)
Table 120. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Type (2021-2026) & (K Units)
Table 121. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Type (2027-2032) & (K Units)
Table 122. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Application (2021-2026) & (K Units)
Table 123. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Application (2027-2032) & (K Units)
Table 124. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Country (2021-2026) & (K Units)
Table 125. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity by Country (2027-2032) & (K Units)
Table 126. Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value by Country (2021-2026) & (USD Million)
Table 127. Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value by Country (2027-2032) & (USD Million)
Table 128. Infrared Array Sensors for Smart Building Raw Material
Table 129. Key Manufacturers of Infrared Array Sensors for Smart Building Raw Materials

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Table 130. Infrared Array Sensors for Smart Building Typical Distributors
Table 131. Infrared Array Sensors for Smart Building Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Infrared Array Sensors for Smart Building Picture
Figure 2. Global Infrared Array Sensors for Smart Building Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Infrared Array Sensors for Smart Building Revenue Market Share by Type in 2025
Figure 4. Low-Resolution Examples
Figure 5. Medium-Resolution Examples
Figure 6. High-Resolution Examples
Figure 7. Global Infrared Array Sensors for Smart Building Revenue by Product, (USD Million), 2021 & 2025 & 2032
Figure 8. Global Infrared Array Sensors for Smart Building Revenue Market Share by Product in 2025
Figure 9. Thermopile Array Sensor Examples
Figure 10. Pyroelectric Array Sensor Examples
Figure 11. Other Examples
Figure 12. Global Infrared Array Sensors for Smart Building Revenue by Technology, (USD Million), 2021 & 2025 & 2032
Figure 13. Global Infrared Array Sensors for Smart Building Revenue Market Share by Technology in 2025
Figure 14. Cooled IR Sensor Examples
Figure 15. Uncooled IR Sensor Examples
Figure 16. Global Infrared Array Sensors for Smart Building Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 17. Global Infrared Array Sensors for Smart Building Revenue Market Share by Application in 2025
Figure 18. Smart Lighting Examples
Figure 19. HVAC Examples
Figure 20. Safety and Fire Detection Examples
Figure 21. Occupancy Detection Examples
Figure 22. Others Examples
Figure 23. Global Infrared Array Sensors for Smart Building Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 24. Global Infrared Array Sensors for Smart Building Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 25. Global Infrared Array Sensors for Smart Building Sales Quantity (2021-2032)

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& (K Units)
Figure 26. Global Infrared Array Sensors for Smart Building Price (2021-2032) & (US$/Unit)
Figure 27. Global Infrared Array Sensors for Smart Building Sales Quantity Market Share by Manufacturer in 2025
Figure 28. Global Infrared Array Sensors for Smart Building Revenue Market Share by Manufacturer in 2025
Figure 29. Producer Shipments of Infrared Array Sensors for Smart Building by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 30. Top 3 Infrared Array Sensors for Smart Building Manufacturer (Revenue) Market Share in 2025
Figure 31. Top 6 Infrared Array Sensors for Smart Building Manufacturer (Revenue) Market Share in 2025
Figure 32. Global Infrared Array Sensors for Smart Building Sales Quantity Market Share by Region (2021-2032)
Figure 33. Global Infrared Array Sensors for Smart Building Consumption Value Market Share by Region (2021-2032)
Figure 34. North America Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 35. Europe Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 36. Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 37. South America Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 38. Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 39. Global Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 40. Global Infrared Array Sensors for Smart Building Consumption Value Market Share by Type (2021-2032)
Figure 41. Global Infrared Array Sensors for Smart Building Average Price by Type (2021-2032) & (US$/Unit)
Figure 42. Global Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 43. Global Infrared Array Sensors for Smart Building Revenue Market Share by Application (2021-2032)
Figure 44. Global Infrared Array Sensors for Smart Building Average Price by Application (2021-2032) & (US$/Unit)

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Figure 45. North America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 46. North America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 47. North America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Country (2021-2032)
Figure 48. North America Infrared Array Sensors for Smart Building Consumption Value Market Share by Country (2021-2032)
Figure 49. United States Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 50. Canada Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 51. Mexico Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 52. Europe Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 53. Europe Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 54. Europe Infrared Array Sensors for Smart Building Sales Quantity Market Share by Country (2021-2032)
Figure 55. Europe Infrared Array Sensors for Smart Building Consumption Value Market Share by Country (2021-2032)
Figure 56. Germany Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 57. France Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 58. United Kingdom Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 59. Russia Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 60. Italy Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 61. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 62. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 63. Asia-Pacific Infrared Array Sensors for Smart Building Sales Quantity Market Share by Region (2021-2032)
Figure 64. Asia-Pacific Infrared Array Sensors for Smart Building Consumption Value

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Market Share by Region (2021-2032)
Figure 65. China Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 66. Japan Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 67. South Korea Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 68. India Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 69. Southeast Asia Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 70. Australia Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 71. South America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 72. South America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 73. South America Infrared Array Sensors for Smart Building Sales Quantity Market Share by Country (2021-2032)
Figure 74. South America Infrared Array Sensors for Smart Building Consumption Value Market Share by Country (2021-2032)
Figure 75. Brazil Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 76. Argentina Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 77. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity Market Share by Type (2021-2032)
Figure 78. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity Market Share by Application (2021-2032)
Figure 79. Middle East & Africa Infrared Array Sensors for Smart Building Sales Quantity Market Share by Country (2021-2032)
Figure 80. Middle East & Africa Infrared Array Sensors for Smart Building Consumption Value Market Share by Country (2021-2032)
Figure 81. Turkey Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 82. Egypt Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 83. Saudi Arabia Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)

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Figure 84. South Africa Infrared Array Sensors for Smart Building Consumption Value (2021-2032) & (USD Million)
Figure 85. Infrared Array Sensors for Smart Building Market Drivers
Figure 86. Infrared Array Sensors for Smart Building Market Restraints
Figure 87. Infrared Array Sensors for Smart Building Market Trends
Figure 88. Porters Five Forces Analysis
Figure 89. Manufacturing Cost Structure Analysis of Infrared Array Sensors for Smart Building in 2025
Figure 90. Manufacturing Process Analysis of Infrared Array Sensors for Smart Building
Figure 91. Infrared Array Sensors for Smart Building Industrial Chain
Figure 92. Sales Channel: Direct to End-User vs Distributors
Figure 93. Direct Channel Pros & Cons
Figure 94. Indirect Channel Pros & Cons
Figure 95. Methodology
Figure 96. Research Process and Data Source

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