

Global Digital Pyroelectric Infrared Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Digital Pyroelectric Infrared Sensor market size is expected to reach \$ 233 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Global production of digital pyroelectric infrared sensors reached 299 million units in 2025. The unit price was approximately US\$0.442 per unit. The industry's gross profit margin was approximately 35-50%.

Digital pyroelectric infrared sensors are passive infrared detection devices based on the pyroelectric effect. They convert 7-10 μ m wavelength infrared signals emitted by the human body into electrical signals using pyroelectric materials (such as lead zirconate titanate and lithium tantalate). Combined with digital signal processing technology, they achieve high-precision human body sensing and are widely used in security, smart homes, and industrial automation.

Upstream and downstream sectors: Upstream consists of suppliers of thermoelectric materials, chips, and optical components; midstream consists of sensor packaging and algorithm development companies; downstream consists of application scenarios such as smart homes, security monitoring, and automotive electronics.

Market drivers primarily include the following:

Technological iterations driving performance leaps; breakthroughs in materials science (such as nanostructured pyroelectric materials) have increased sensor sensitivity by 20%-30%; sol-gel fabrication processes have reduced production costs; micro-nano fabrication technologies have enabled sensor arraying (e.g., 16 \times 16 pixels), significantly improving resolution and functional integration; built-in microprocessors support

algorithms such as Fourier transform and wavelet transform, enhancing anti-interference capabilities and reducing false alarm rates to below 0.1%. Technological upgrades directly expand into high-end application scenarios such as healthcare (non-contact respiratory monitoring) and industrial automation (production line temperature monitoring).

Application scenarios are penetrating from traditional to emerging fields. In the traditional security monitoring sector, the demand is deepening, with intrusion detection systems in homes, warehouses, banks, and other locations being comprehensively upgraded to intelligent sensors. In the smart home sector, sensors are deeply integrated with automatic lighting and air conditioning control, achieving energy-saving solutions such as 'lights on when someone enters, lights off when someone leaves,' reducing energy consumption by 30%-50%. Emerging fields such as automotive electronics (pedestrian recognition for autonomous driving, occupant detection in vehicles), healthcare (fall warning for the elderly), and IoT devices (gesture control, presence sensing) are experiencing explosive growth in demand, driving the evolution of sensors from single-function to multi-functional integration.

Policy support and consumption upgrades are driving demand. Global energy conservation and emission reduction regulations (such as the EU Energy Efficiency Directive) mandate the use of smart lighting systems in public buildings, directly stimulating sensor demand. Upgraded safety standards (such as mandatory installation of automatic alarm systems in banks and shopping malls) are expanding the market size. With smart home penetration exceeding 60%, consumer demand for contactless interaction and health monitoring functions is increasing, driving sensors towards miniaturization, low power consumption, and high reliability. Cost reductions (thin-film technology and surface-mount design reduce production costs) have enabled large-scale deployment of sensors in price-sensitive scenarios such as public restrooms and underground parking garages, leading to a continuous increase in market penetration.

This report studies the global Digital Pyroelectric Infrared Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Digital Pyroelectric Infrared Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Digital Pyroelectric Infrared Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Digital Pyroelectric Infrared Sensor total production and demand, 2021-2032, (K Units)

Global Digital Pyroelectric Infrared Sensor total production value, 2021-2032, (USD Million)

Global Digital Pyroelectric Infrared Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Digital Pyroelectric Infrared Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Digital Pyroelectric Infrared Sensor domestic production, consumption, key domestic manufacturers and share

Global Digital Pyroelectric Infrared Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Digital Pyroelectric Infrared Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Digital Pyroelectric Infrared Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Digital Pyroelectric Infrared Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Excelitas Technologies, Nippon Ceramic Co., Ltd., Senba Sensing Technology, Murata, Broadcom, Panasonic, InfraTec, KEMET Electronics (YAGEO Group), Heimann Sensors, Hanwei Electronics Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Digital Pyroelectric Infrared Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Digital Pyroelectric Infrared Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Digital Pyroelectric Infrared Sensor Market, Segmentation by Type:

Basic

Intelligent

Global Digital Pyroelectric Infrared Sensor Market, Segmentation by Material:

Thin Film

Ceramic

Global Digital Pyroelectric Infrared Sensor Market, Segmentation by Function Category:

Single Channel

Multi-Channel

Global Digital Pyroelectric Infrared Sensor Market, Segmentation by Application:

Lighting Products

Security Products

Smart Home

Consumer Electronics

Others

Companies Profiled:

Excelitas Technologies

Nippon Ceramic Co., Ltd.

Senba Sensing Technology

Murata

Broadcom

Panasonic

InfraTec

KEMET Electronics (YAGEO Group)

Heimann Sensors

Hanwei Electronics Group

MEMSFrontier Electronics

Key Questions Answered:

1. How big is the global Digital Pyroelectric Infrared Sensor market?
2. What is the demand of the global Digital Pyroelectric Infrared Sensor market?
3. What is the year over year growth of the global Digital Pyroelectric Infrared Sensor market?
4. What is the production and production value of the global Digital Pyroelectric Infrared Sensor market?
5. Who are the key producers in the global Digital Pyroelectric Infrared Sensor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Robot Cooling Fan Introduction
- 1.2 World Robot Cooling Fan Supply & Forecast
 - 1.2.1 World Robot Cooling Fan Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Robot Cooling Fan Production (2021-2032)
 - 1.2.3 World Robot Cooling Fan Pricing Trends (2021-2032)
- 1.3 World Robot Cooling Fan Production by Region (Based on Production Site)
 - 1.3.1 World Robot Cooling Fan Production Value by Region (2021-2032)
 - 1.3.2 World Robot Cooling Fan Production by Region (2021-2032)
 - 1.3.3 World Robot Cooling Fan Average Price by Region (2021-2032)
 - 1.3.4 North America Robot Cooling Fan Production (2021-2032)
 - 1.3.5 Europe Robot Cooling Fan Production (2021-2032)
 - 1.3.6 China Robot Cooling Fan Production (2021-2032)
 - 1.3.7 Japan Robot Cooling Fan Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Robot Cooling Fan Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Robot Cooling Fan Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Robot Cooling Fan Demand (2021-2032)
- 2.2 World Robot Cooling Fan Consumption by Region
 - 2.2.1 World Robot Cooling Fan Consumption by Region (2021-2026)
 - 2.2.2 World Robot Cooling Fan Consumption Forecast by Region (2027-2032)
- 2.3 United States Robot Cooling Fan Consumption (2021-2032)
- 2.4 China Robot Cooling Fan Consumption (2021-2032)
- 2.5 Europe Robot Cooling Fan Consumption (2021-2032)
- 2.6 Japan Robot Cooling Fan Consumption (2021-2032)
- 2.7 South Korea Robot Cooling Fan Consumption (2021-2032)
- 2.8 ASEAN Robot Cooling Fan Consumption (2021-2032)
- 2.9 India Robot Cooling Fan Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Robot Cooling Fan Production Value by Manufacturer (2021-2026)

- 3.2 World Robot Cooling Fan Production by Manufacturer (2021-2026)
- 3.3 World Robot Cooling Fan Average Price by Manufacturer (2021-2026)
- 3.4 Robot Cooling Fan Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Robot Cooling Fan Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Robot Cooling Fan in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Robot Cooling Fan in 2025
- 3.6 Robot Cooling Fan Market: Overall Company Footprint Analysis
 - 3.6.1 Robot Cooling Fan Market: Region Footprint
 - 3.6.2 Robot Cooling Fan Market: Company Product Type Footprint
 - 3.6.3 Robot Cooling Fan Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Robot Cooling Fan Production Value Comparison
 - 4.1.1 United States VS China: Robot Cooling Fan Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Robot Cooling Fan Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Robot Cooling Fan Production Comparison
 - 4.2.1 United States VS China: Robot Cooling Fan Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Robot Cooling Fan Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Robot Cooling Fan Consumption Comparison
 - 4.3.1 United States VS China: Robot Cooling Fan Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Robot Cooling Fan Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Robot Cooling Fan Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Robot Cooling Fan Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Robot Cooling Fan Production Value (2021-2026)

4.4.3 United States Based Manufacturers Robot Cooling Fan Production (2021-2026)

4.5 China Based Robot Cooling Fan Manufacturers and Market Share

4.5.1 China Based Robot Cooling Fan Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Robot Cooling Fan Production Value (2021-2026)

4.5.3 China Based Manufacturers Robot Cooling Fan Production (2021-2026)

4.6 Rest of World Based Robot Cooling Fan Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Robot Cooling Fan Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Robot Cooling Fan Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Robot Cooling Fan Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Robot Cooling Fan Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Axial Cooling Fans

5.2.2 Centrifugal Fans

5.3 Market Segment by Type

5.3.1 World Robot Cooling Fan Production by Type (2021-2032)

5.3.2 World Robot Cooling Fan Production Value by Type (2021-2032)

5.3.3 World Robot Cooling Fan Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE TYPE

6.1 World Robot Cooling Fan Market Size Overview by Voltage Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage Type

6.2.1 5V Cooling Fans

6.2.2 12V Cooling Fans

6.2.3 24V Cooling Fans

6.2.4 48V Cooling Fans

6.3 Market Segment by Voltage Type

6.3.1 World Robot Cooling Fan Production by Voltage Type (2021-2032)

6.3.2 World Robot Cooling Fan Production Value by Voltage Type (2021-2032)

6.3.3 World Robot Cooling Fan Average Price by Voltage Type (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Robot Cooling Fan Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Industrial Robot Cooling Fans

7.2.2 Collaborative Robot Cooling Fans

7.2.3 Service Robot Cooling Fans

7.2.4 Medical Robot Cooling Fans

7.2.5 Logistics & AMR Cooling Fans

7.3 Market Segment by Application

7.3.1 World Robot Cooling Fan Production by Application (2021-2032)

7.3.2 World Robot Cooling Fan Production Value by Application (2021-2032)

7.3.3 World Robot Cooling Fan Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Delta Electronics Inc. (Taiwan)

8.1.1 Delta Electronics Inc. (Taiwan) Details

8.1.2 Delta Electronics Inc. (Taiwan) Major Business

8.1.3 Delta Electronics Inc. (Taiwan) Robot Cooling Fan Product and Services

8.1.4 Delta Electronics Inc. (Taiwan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Delta Electronics Inc. (Taiwan) Recent Developments/Updates

8.1.6 Delta Electronics Inc. (Taiwan) Competitive Strengths & Weaknesses

8.2 Nidec Corporation (Japan)

8.2.1 Nidec Corporation (Japan) Details

8.2.2 Nidec Corporation (Japan) Major Business

8.2.3 Nidec Corporation (Japan) Robot Cooling Fan Product and Services

8.2.4 Nidec Corporation (Japan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Nidec Corporation (Japan) Recent Developments/Updates

8.2.6 Nidec Corporation (Japan) Competitive Strengths & Weaknesses

8.3 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan)

8.3.1 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Details

8.3.2 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Major Business

8.3.3 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Robot Cooling Fan

Product and Services

8.3.4 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Recent Developments/Updates

8.3.6 Sunonwealth Electric Machine Industry Co. Ltd. (Taiwan) Competitive Strengths & Weaknesses

8.4 Ebm-papst Group (Germany)

8.4.1 Ebm-papst Group (Germany) Details

8.4.2 Ebm-papst Group (Germany) Major Business

8.4.3 Ebm-papst Group (Germany) Robot Cooling Fan Product and Services

8.4.4 Ebm-papst Group (Germany) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Ebm-papst Group (Germany) Recent Developments/Updates

8.4.6 Ebm-papst Group (Germany) Competitive Strengths & Weaknesses

8.5 Sanyo Denki Co. Ltd. (Japan)

8.5.1 Sanyo Denki Co. Ltd. (Japan) Details

8.5.2 Sanyo Denki Co. Ltd. (Japan) Major Business

8.5.3 Sanyo Denki Co. Ltd. (Japan) Robot Cooling Fan Product and Services

8.5.4 Sanyo Denki Co. Ltd. (Japan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Sanyo Denki Co. Ltd. (Japan) Recent Developments/Updates

8.5.6 Sanyo Denki Co. Ltd. (Japan) Competitive Strengths & Weaknesses

8.6 Oriental Motor Co. Ltd. (Japan)

8.6.1 Oriental Motor Co. Ltd. (Japan) Details

8.6.2 Oriental Motor Co. Ltd. (Japan) Major Business

8.6.3 Oriental Motor Co. Ltd. (Japan) Robot Cooling Fan Product and Services

8.6.4 Oriental Motor Co. Ltd. (Japan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Oriental Motor Co. Ltd. (Japan) Recent Developments/Updates

8.6.6 Oriental Motor Co. Ltd. (Japan) Competitive Strengths & Weaknesses

8.7 ADDA Corp. Ltd. (Taiwan)

8.7.1 ADDA Corp. Ltd. (Taiwan) Details

8.7.2 ADDA Corp. Ltd. (Taiwan) Major Business

8.7.3 ADDA Corp. Ltd. (Taiwan) Robot Cooling Fan Product and Services

8.7.4 ADDA Corp. Ltd. (Taiwan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 ADDA Corp. Ltd. (Taiwan) Recent Developments/Updates

8.7.6 ADDA Corp. Ltd. (Taiwan) Competitive Strengths & Weaknesses

8.8 MinebeaMitsumi Inc. (Japan)

8.8.1 MinebeaMitsumi Inc. (Japan) Details

8.8.2 MinebeaMitsumi Inc. (Japan) Major Business

8.8.3 MinebeaMitsumi Inc. (Japan) Robot Cooling Fan Product and Services

8.8.4 MinebeaMitsumi Inc. (Japan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 MinebeaMitsumi Inc. (Japan) Recent Developments/Updates

8.8.6 MinebeaMitsumi Inc. (Japan) Competitive Strengths & Weaknesses

8.9 Mechatronics Fan Group (United States)

8.9.1 Mechatronics Fan Group (United States) Details

8.9.2 Mechatronics Fan Group (United States) Major Business

8.9.3 Mechatronics Fan Group (United States) Robot Cooling Fan Product and Services

8.9.4 Mechatronics Fan Group (United States) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Mechatronics Fan Group (United States) Recent Developments/Updates

8.9.6 Mechatronics Fan Group (United States) Competitive Strengths & Weaknesses

8.10 Qualtek Electronics Corporation (United States)

8.10.1 Qualtek Electronics Corporation (United States) Details

8.10.2 Qualtek Electronics Corporation (United States) Major Business

8.10.3 Qualtek Electronics Corporation (United States) Robot Cooling Fan Product and Services

8.10.4 Qualtek Electronics Corporation (United States) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Qualtek Electronics Corporation (United States) Recent Developments/Updates

8.10.6 Qualtek Electronics Corporation (United States) Competitive Strengths & Weaknesses

8.11 Rosenberg Ventilatoren GmbH (Germany)

8.11.1 Rosenberg Ventilatoren GmbH (Germany) Details

8.11.2 Rosenberg Ventilatoren GmbH (Germany) Major Business

8.11.3 Rosenberg Ventilatoren GmbH (Germany) Robot Cooling Fan Product and Services

8.11.4 Rosenberg Ventilatoren GmbH (Germany) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Rosenberg Ventilatoren GmbH (Germany) Recent Developments/Updates

8.11.6 Rosenberg Ventilatoren GmbH (Germany) Competitive Strengths & Weaknesses

8.12 Pelonis Technologies Inc. (United States)

8.12.1 Pelonis Technologies Inc. (United States) Details

- 8.12.2 Pelonis Technologies Inc. (United States) Major Business
- 8.12.3 Pelonis Technologies Inc. (United States) Robot Cooling Fan Product and Services
- 8.12.4 Pelonis Technologies Inc. (United States) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.12.5 Pelonis Technologies Inc. (United States) Recent Developments/Updates
- 8.12.6 Pelonis Technologies Inc. (United States) Competitive Strengths & Weaknesses
- 8.13 Comair Rotron (United States)
 - 8.13.1 Comair Rotron (United States) Details
 - 8.13.2 Comair Rotron (United States) Major Business
 - 8.13.3 Comair Rotron (United States) Robot Cooling Fan Product and Services
 - 8.13.4 Comair Rotron (United States) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Comair Rotron (United States) Recent Developments/Updates
 - 8.13.6 Comair Rotron (United States) Competitive Strengths & Weaknesses
- 8.14 Orion Fans (Knight Electronics Inc.) (United States)
 - 8.14.1 Orion Fans (Knight Electronics Inc.) (United States) Details
 - 8.14.2 Orion Fans (Knight Electronics Inc.) (United States) Major Business
 - 8.14.3 Orion Fans (Knight Electronics Inc.) (United States) Robot Cooling Fan Product and Services
 - 8.14.4 Orion Fans (Knight Electronics Inc.) (United States) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 Orion Fans (Knight Electronics Inc.) (United States) Recent Developments/Updates
 - 8.14.6 Orion Fans (Knight Electronics Inc.) (United States) Competitive Strengths & Weaknesses
- 8.15 SPAL Automotive Srl (Italy)
 - 8.15.1 SPAL Automotive Srl (Italy) Details
 - 8.15.2 SPAL Automotive Srl (Italy) Major Business
 - 8.15.3 SPAL Automotive Srl (Italy) Robot Cooling Fan Product and Services
 - 8.15.4 SPAL Automotive Srl (Italy) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.15.5 SPAL Automotive Srl (Italy) Recent Developments/Updates
 - 8.15.6 SPAL Automotive Srl (Italy) Competitive Strengths & Weaknesses
- 8.16 Asia Vital Components Co. Ltd. (Taiwan)
 - 8.16.1 Asia Vital Components Co. Ltd. (Taiwan) Details
 - 8.16.2 Asia Vital Components Co. Ltd. (Taiwan) Major Business
 - 8.16.3 Asia Vital Components Co. Ltd. (Taiwan) Robot Cooling Fan Product and

Services

8.16.4 Asia Vital Components Co. Ltd. (Taiwan) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Asia Vital Components Co. Ltd. (Taiwan) Recent Developments/Updates

8.16.6 Asia Vital Components Co. Ltd. (Taiwan) Competitive Strengths & Weaknesses

8.17 ZIEHL-ABEGG SE (Germany)

8.17.1 ZIEHL-ABEGG SE (Germany) Details

8.17.2 ZIEHL-ABEGG SE (Germany) Major Business

8.17.3 ZIEHL-ABEGG SE (Germany) Robot Cooling Fan Product and Services

8.17.4 ZIEHL-ABEGG SE (Germany) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 ZIEHL-ABEGG SE (Germany) Recent Developments/Updates

8.17.6 ZIEHL-ABEGG SE (Germany) Competitive Strengths & Weaknesses

8.18 Zhejiang Yilida Ventilator Co. Ltd. (China)

8.18.1 Zhejiang Yilida Ventilator Co. Ltd. (China) Details

8.18.2 Zhejiang Yilida Ventilator Co. Ltd. (China) Major Business

8.18.3 Zhejiang Yilida Ventilator Co. Ltd. (China) Robot Cooling Fan Product and Services

8.18.4 Zhejiang Yilida Ventilator Co. Ltd. (China) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.18.5 Zhejiang Yilida Ventilator Co. Ltd. (China) Recent Developments/Updates

8.18.6 Zhejiang Yilida Ventilator Co. Ltd. (China) Competitive Strengths & Weaknesses

8.19 Shenzhen Xinwang Electronic Co. Ltd. (China)

8.19.1 Shenzhen Xinwang Electronic Co. Ltd. (China) Details

8.19.2 Shenzhen Xinwang Electronic Co. Ltd. (China) Major Business

8.19.3 Shenzhen Xinwang Electronic Co. Ltd. (China) Robot Cooling Fan Product and Services

8.19.4 Shenzhen Xinwang Electronic Co. Ltd. (China) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.19.5 Shenzhen Xinwang Electronic Co. Ltd. (China) Recent Developments/Updates

8.19.6 Shenzhen Xinwang Electronic Co. Ltd. (China) Competitive Strengths & Weaknesses

8.20 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China)

8.20.1 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Details

8.20.2 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Major Business

8.20.3 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Robot Cooling Fan Product and Services

8.20.4 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Robot Cooling Fan Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.20.5 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Recent Developments/Updates

8.20.6 YCC Fan (Shenzhen Yongchengchuang Technology Co. Ltd.) (China) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Robot Cooling Fan Industry Chain

9.2 Robot Cooling Fan Upstream Analysis

9.2.1 Robot Cooling Fan Core Raw Materials

9.2.2 Main Manufacturers of Robot Cooling Fan Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Robot Cooling Fan Production Mode

9.6 Robot Cooling Fan Procurement Model

9.7 Robot Cooling Fan Industry Sales Model and Sales Channels

9.7.1 Robot Cooling Fan Sales Model

9.7.2 Robot Cooling Fan Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Digital Pyroelectric Infrared Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Digital Pyroelectric Infrared Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Digital Pyroelectric Infrared Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Region (2021-2026)

Table 5. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Region (2027-2032)

Table 6. World Digital Pyroelectric Infrared Sensor Production by Region (2021-2026) & (K Units)

Table 7. World Digital Pyroelectric Infrared Sensor Production by Region (2027-2032) & (K Units)

Table 8. World Digital Pyroelectric Infrared Sensor Production Market Share by Region (2021-2026)

Table 9. World Digital Pyroelectric Infrared Sensor Production Market Share by Region (2027-2032)

Table 10. World Digital Pyroelectric Infrared Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Digital Pyroelectric Infrared Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Digital Pyroelectric Infrared Sensor Major Market Trends

Table 13. World Digital Pyroelectric Infrared Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Digital Pyroelectric Infrared Sensor Consumption by Region (2021-2026) & (K Units)

Table 15. World Digital Pyroelectric Infrared Sensor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Digital Pyroelectric Infrared Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Digital Pyroelectric Infrared Sensor Producers in 2025

Table 18. World Digital Pyroelectric Infrared Sensor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Digital Pyroelectric Infrared Sensor Producers in 2025

Table 20. World Digital Pyroelectric Infrared Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Digital Pyroelectric Infrared Sensor Company Evaluation Quadrant

Table 22. World Digital Pyroelectric Infrared Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Digital Pyroelectric Infrared Sensor Production Site of Key Manufacturer

Table 24. Digital Pyroelectric Infrared Sensor Market: Company Product Type Footprint

Table 25. Digital Pyroelectric Infrared Sensor Market: Company Product Application Footprint

Table 26. Digital Pyroelectric Infrared Sensor Competitive Factors

Table 27. Digital Pyroelectric Infrared Sensor New Entrant and Capacity Expansion Plans

Table 28. Digital Pyroelectric Infrared Sensor Mergers & Acquisitions Activity

Table 29. United States VS China Digital Pyroelectric Infrared Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Digital Pyroelectric Infrared Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Digital Pyroelectric Infrared Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Digital Pyroelectric Infrared Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Digital Pyroelectric Infrared Sensor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share (2021-2026)

Table 37. China Based Digital Pyroelectric Infrared Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Digital Pyroelectric Infrared Sensor Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based Digital Pyroelectric Infrared Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Digital Pyroelectric Infrared Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Digital Pyroelectric Infrared Sensor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share (2021-2026)

Table 47. World Digital Pyroelectric Infrared Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Digital Pyroelectric Infrared Sensor Production by Type (2021-2026) & (K Units)

Table 49. World Digital Pyroelectric Infrared Sensor Production by Type (2027-2032) & (K Units)

Table 50. World Digital Pyroelectric Infrared Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Digital Pyroelectric Infrared Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Digital Pyroelectric Infrared Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Digital Pyroelectric Infrared Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Digital Pyroelectric Infrared Sensor Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 55. World Digital Pyroelectric Infrared Sensor Production by Material (2021-2026) & (K Units)

Table 56. World Digital Pyroelectric Infrared Sensor Production by Material (2027-2032) & (K Units)

Table 57. World Digital Pyroelectric Infrared Sensor Production Value by Material (2021-2026) & (USD Million)

Table 58. World Digital Pyroelectric Infrared Sensor Production Value by Material (2027-2032) & (USD Million)

Table 59. World Digital Pyroelectric Infrared Sensor Average Price by Material (2021-2026) & (US\$/Unit)

Table 60. World Digital Pyroelectric Infrared Sensor Average Price by Material (2027-2032) & (US\$/Unit)

Table 61. World Digital Pyroelectric Infrared Sensor Production Value by Function Category, (USD Million), 2021 & 2025 & 2032

Table 62. World Digital Pyroelectric Infrared Sensor Production by Function Category (2021-2026) & (K Units)

Table 63. World Digital Pyroelectric Infrared Sensor Production by Function Category (2027-2032) & (K Units)

Table 64. World Digital Pyroelectric Infrared Sensor Production Value by Function Category (2021-2026) & (USD Million)

Table 65. World Digital Pyroelectric Infrared Sensor Production Value by Function Category (2027-2032) & (USD Million)

Table 66. World Digital Pyroelectric Infrared Sensor Average Price by Function Category (2021-2026) & (US\$/Unit)

Table 67. World Digital Pyroelectric Infrared Sensor Average Price by Function Category (2027-2032) & (US\$/Unit)

Table 68. World Digital Pyroelectric Infrared Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Digital Pyroelectric Infrared Sensor Production by Application (2021-2026) & (K Units)

Table 70. World Digital Pyroelectric Infrared Sensor Production by Application (2027-2032) & (K Units)

Table 71. World Digital Pyroelectric Infrared Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Digital Pyroelectric Infrared Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Digital Pyroelectric Infrared Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Digital Pyroelectric Infrared Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Excelitas Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Excelitas Technologies Major Business

Table 77. Excelitas Technologies Digital Pyroelectric Infrared Sensor Product and Services

Table 78. Excelitas Technologies Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Excelitas Technologies Recent Developments/Updates

- Table 80. Excelitas Technologies Competitive Strengths & Weaknesses
- Table 81. Nippon Ceramic Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 82. Nippon Ceramic Co., Ltd. Major Business
- Table 83. Nippon Ceramic Co., Ltd. Digital Pyroelectric Infrared Sensor Product and Services
- Table 84. Nippon Ceramic Co., Ltd. Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Nippon Ceramic Co., Ltd. Recent Developments/Updates
- Table 86. Nippon Ceramic Co., Ltd. Competitive Strengths & Weaknesses
- Table 87. Senba Sensing Technology Basic Information, Manufacturing Base and Competitors
- Table 88. Senba Sensing Technology Major Business
- Table 89. Senba Sensing Technology Digital Pyroelectric Infrared Sensor Product and Services
- Table 90. Senba Sensing Technology Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Senba Sensing Technology Recent Developments/Updates
- Table 92. Senba Sensing Technology Competitive Strengths & Weaknesses
- Table 93. Murata Basic Information, Manufacturing Base and Competitors
- Table 94. Murata Major Business
- Table 95. Murata Digital Pyroelectric Infrared Sensor Product and Services
- Table 96. Murata Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Murata Recent Developments/Updates
- Table 98. Murata Competitive Strengths & Weaknesses
- Table 99. Broadcom Basic Information, Manufacturing Base and Competitors
- Table 100. Broadcom Major Business
- Table 101. Broadcom Digital Pyroelectric Infrared Sensor Product and Services
- Table 102. Broadcom Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Broadcom Recent Developments/Updates
- Table 104. Broadcom Competitive Strengths & Weaknesses
- Table 105. Panasonic Basic Information, Manufacturing Base and Competitors
- Table 106. Panasonic Major Business

Table 107. Panasonic Digital Pyroelectric Infrared Sensor Product and Services

Table 108. Panasonic Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Panasonic Recent Developments/Updates

Table 110. Panasonic Competitive Strengths & Weaknesses

Table 111. InfraTec Basic Information, Manufacturing Base and Competitors

Table 112. InfraTec Major Business

Table 113. InfraTec Digital Pyroelectric Infrared Sensor Product and Services

Table 114. InfraTec Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. InfraTec Recent Developments/Updates

Table 116. InfraTec Competitive Strengths & Weaknesses

Table 117. KEMET Electronics (YAGEO Group) Basic Information, Manufacturing Base and Competitors

Table 118. KEMET Electronics (YAGEO Group) Major Business

Table 119. KEMET Electronics (YAGEO Group) Digital Pyroelectric Infrared Sensor Product and Services

Table 120. KEMET Electronics (YAGEO Group) Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. KEMET Electronics (YAGEO Group) Recent Developments/Updates

Table 122. KEMET Electronics (YAGEO Group) Competitive Strengths & Weaknesses

Table 123. Heimann Sensors Basic Information, Manufacturing Base and Competitors

Table 124. Heimann Sensors Major Business

Table 125. Heimann Sensors Digital Pyroelectric Infrared Sensor Product and Services

Table 126. Heimann Sensors Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Heimann Sensors Recent Developments/Updates

Table 128. Heimann Sensors Competitive Strengths & Weaknesses

Table 129. Hanwei Electronics Group Basic Information, Manufacturing Base and Competitors

Table 130. Hanwei Electronics Group Major Business

Table 131. Hanwei Electronics Group Digital Pyroelectric Infrared Sensor Product and Services

Table 132. Hanwei Electronics Group Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. Hanwei Electronics Group Recent Developments/Updates

Table 134. Hanwei Electronics Group Competitive Strengths & Weaknesses

Table 135. MEMSFrontier Electronics Basic Information, Manufacturing Base and Competitors

Table 136. MEMSFrontier Electronics Major Business

Table 137. MEMSFrontier Electronics Digital Pyroelectric Infrared Sensor Product and Services

Table 138. MEMSFrontier Electronics Digital Pyroelectric Infrared Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. MEMSFrontier Electronics Recent Developments/Updates

Table 140. MEMSFrontier Electronics Competitive Strengths & Weaknesses

Table 141. Global Key Players of Digital Pyroelectric Infrared Sensor Upstream (Raw Materials)

Table 142. Global Digital Pyroelectric Infrared Sensor Typical Customers

Table 143. Digital Pyroelectric Infrared Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Digital Pyroelectric Infrared Sensor Picture

Figure 2. World Digital Pyroelectric Infrared Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Digital Pyroelectric Infrared Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 5. World Digital Pyroelectric Infrared Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World Digital Pyroelectric Infrared Sensor Production Market Share by Region (2021-2032)

Figure 8. North America Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 9. Europe Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 10. China Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 11. Japan Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 12. South Korea Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 14. China Taiwan Digital Pyroelectric Infrared Sensor Production (2021-2032) & (K Units)

Figure 15. Digital Pyroelectric Infrared Sensor Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 18. World Digital Pyroelectric Infrared Sensor Consumption Market Share by Region (2021-2032)

Figure 19. United States Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 20. China Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K

Units)

Figure 21. Europe Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 22. Japan Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 23. South Korea Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 25. India Digital Pyroelectric Infrared Sensor Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Digital Pyroelectric Infrared Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Digital Pyroelectric Infrared Sensor Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Digital Pyroelectric Infrared Sensor Markets in 2025

Figure 29. United States VS China: Digital Pyroelectric Infrared Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Digital Pyroelectric Infrared Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Digital Pyroelectric Infrared Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share 2025

Figure 33. China Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Digital Pyroelectric Infrared Sensor Production Market Share 2025

Figure 35. World Digital Pyroelectric Infrared Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Type in 2025

Figure 37. Basic

Figure 38. Intelligent

Figure 39. World Digital Pyroelectric Infrared Sensor Production Market Share by Type (2021-2032)

Figure 40. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Type (2021-2032)

Figure 41. World Digital Pyroelectric Infrared Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Digital Pyroelectric Infrared Sensor Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 43. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Material in 2025

Figure 44. Thin Film

Figure 45. Ceramic

Figure 46. World Digital Pyroelectric Infrared Sensor Production Market Share by Material (2021-2032)

Figure 47. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Material (2021-2032)

Figure 48. World Digital Pyroelectric Infrared Sensor Average Price by Material (2021-2032) & (US\$/Unit)

Figure 49. World Digital Pyroelectric Infrared Sensor Production Value by Function Category, (USD Million), 2021 & 2025 & 2032

Figure 50. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Function Category in 2025

Figure 51. Single Channel

Figure 52. Multi-Channel

Figure 53. World Digital Pyroelectric Infrared Sensor Production Market Share by Function Category (2021-2032)

Figure 54. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Function Category (2021-2032)

Figure 55. World Digital Pyroelectric Infrared Sensor Average Price by Function Category (2021-2032) & (US\$/Unit)

Figure 56. World Digital Pyroelectric Infrared Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Application in 2025

Figure 58. Lighting Products

Figure 59. Security Products

Figure 60. Smart Home

Figure 61. Consumer Electronics

Figure 62. Others

Figure 63. World Digital Pyroelectric Infrared Sensor Production Market Share by Application (2021-2032)

Figure 64. World Digital Pyroelectric Infrared Sensor Production Value Market Share by Application (2021-2032)

Figure 65. World Digital Pyroelectric Infrared Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Digital Pyroelectric Infrared Sensor Industry Chain

Figure 67. Digital Pyroelectric Infrared Sensor Procurement Model

Figure 68. Digital Pyroelectric Infrared Sensor Sales Model

Figure 69. Digital Pyroelectric Infrared Sensor Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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