

Global Fixed Spot Non-Contact Thermometer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fixed Spot Non-Contact Thermometer market size is expected to reach \$ 284 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global Fixed Spot Non-Contact Thermometer production reached approximately 250 K units, with an average global market price of around 750 US\$/unit.

A fixed spot non-contact thermometer is a specialized temperature-measuring instrument designed to be installed at a fixed location to detect the surface temperature of objects or human bodies without direct physical contact, operating on the basic principle of blackbody radiation and infrared thermal radiation detection. Unlike portable non-contact thermometers, it features a stable installation structure, continuous monitoring capability, and high measurement accuracy, typically ranging from 0.3% to 0.5%, and is widely configured with functions such as real-time data transmission, over-temperature alarm, and data storage to meet the needs of long-term, automated temperature monitoring in specific scenarios. It is mainly used to measure the surface temperature of moving objects, small targets, or objects with small heat capacity and rapid temperature changes, and can also be applied to temperature distribution detection of temperature fields, avoiding the interference of contact measurement on the measured object and ensuring the safety and accuracy of the measurement process.

The average single-line production capacity of Fixed Spot Non-Contact Thermometer is 13 K unit, the average gross profit margin was 47.4%.

The industry chain of fixed spot non-contact thermometers has clear upstream,

midstream and downstream links. The upstream mainly includes suppliers of core components (infrared sensors, signal processing chips, etc.) and supporting materials (metal casings, high-temperature resistant plastics, etc.), whose product quality directly affects the final product's accuracy and stability. The midstream involves R&D, assembly, calibration and testing of the thermometers, integrating upstream components and optimizing performance for different scenarios, with some customized development according to customer needs. The downstream covers industrial production, public health, building detection and other fields, and the demand of these industries drives the upgrading of the entire industrial chain.

The cost structure of fixed spot non-contact thermometers has distinct component weights, mainly affected by product configuration and production scale. Core components account for 45%-55% of the total cost, with infrared sensors (25%-30%) and signal processing chips (10%-15%) as the key drivers due to their core technology and high price. Structural and auxiliary materials account for 15%-20%, production and assembly for 10%-15%, R&D and after-sales service for 10%-15%, and transportation and marketing for about 5%.

The demand for fixed spot non-contact thermometers is steadily growing, with broad business opportunities. Industrial automation promotes demand in high-temperature, high-risk scenarios; public places maintain stable demand for temperature screening, with prominent upgrading needs for more accurate and intelligent products; expanding application fields further boost market demand. Business opportunities lie in strengthening core technology R&D to reduce import dependence, conducting customized development for different downstream fields, and seizing policy dividends to expand market share in emerging areas.

This report studies the global Fixed Spot Non-Contact Thermometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fixed Spot Non-Contact Thermometer 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 Fixed Spot Non-Contact Thermometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fixed Spot Non-Contact Thermometer total production and demand, 2021-2032, (K Units)

Global Fixed Spot Non-Contact Thermometer total production value, 2021-2032, (USD Million)

Global Fixed Spot Non-Contact Thermometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fixed Spot Non-Contact Thermometer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fixed Spot Non-Contact Thermometer domestic production, consumption, key domestic manufacturers and share

Global Fixed Spot Non-Contact Thermometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fixed Spot Non-Contact Thermometer production by Measurement Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fixed Spot Non-Contact Thermometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fixed Spot Non-Contact Thermometer 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 AMETEK, Omega, Callex Electronics, Fluke Process Instruments, Optris, Advanced Energy (Impac), Process Sensors, Keller ITS, HEITRONICS, Williamson, 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 Fixed Spot Non-Contact Thermometer 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 Measurement Range, 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 Fixed Spot Non-Contact Thermometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fixed Spot Non-Contact Thermometer Market, Segmentation by Measurement Range:

High-Temperature Type (above 500?)

Medium-Temperature Type (50?-500?)

Low-Temperature Type (below 50?)

Global Fixed Spot Non-Contact Thermometer Market, Segmentation by Detection Technology:

Infrared Radiation Type

Thermal Imager Type

Laser-Assisted Type

Others

Global Fixed Spot Non-Contact Thermometer Market, Segmentation by Application:

Industrial Production

Public Health

Building Detection

Scientific Research

Others

Companies Profiled:

AMETEK

Omega

Calex Electronics

Fluke Process Instruments

Optris

Advanced Energy (Impac)

Process Sensors

Keller ITS

HEITRONICS

Williamson

Micro-Epsilon

Sensortherm

CHINO

OPTEX FA

Haining Dongben Measurement and Control Technology

Wuhan Dikai Optoelectronic Technology

Xi'an Delong Automation Instrument

Key Questions Answered:

1. How big is the global Fixed Spot Non-Contact Thermometer market?
2. What is the demand of the global Fixed Spot Non-Contact Thermometer market?
3. What is the year over year growth of the global Fixed Spot Non-Contact Thermometer market?
4. What is the production and production value of the global Fixed Spot Non-Contact Thermometer market?
5. Who are the key producers in the global Fixed Spot Non-Contact Thermometer market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Fixed Spot Non-Contact Thermometer Demand (2021-2032)
- 2.2 World Fixed Spot Non-Contact Thermometer Consumption by Region
 - 2.2.1 World Fixed Spot Non-Contact Thermometer Consumption by Region (2021-2026)
 - 2.2.2 World Fixed Spot Non-Contact Thermometer Consumption Forecast by Region (2027-2032)
- 2.3 United States Fixed Spot Non-Contact Thermometer Consumption (2021-2032)
- 2.4 China Fixed Spot Non-Contact Thermometer Consumption (2021-2032)
- 2.5 Europe Fixed Spot Non-Contact Thermometer Consumption (2021-2032)
- 2.6 Japan Fixed Spot Non-Contact Thermometer Consumption (2021-2032)
- 2.7 South Korea Fixed Spot Non-Contact Thermometer Consumption (2021-2032)

2.8 ASEAN Fixed Spot Non-Contact Thermometer Consumption (2021-2032)

2.9 India Fixed Spot Non-Contact Thermometer Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Fixed Spot Non-Contact Thermometer Production Value by Manufacturer (2021-2026)

3.2 World Fixed Spot Non-Contact Thermometer Production by Manufacturer (2021-2026)

3.3 World Fixed Spot Non-Contact Thermometer Average Price by Manufacturer (2021-2026)

3.4 Fixed Spot Non-Contact Thermometer Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Fixed Spot Non-Contact Thermometer Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Fixed Spot Non-Contact Thermometer in 2025

3.5.3 Global Concentration Ratios (CR8) for Fixed Spot Non-Contact Thermometer in 2025

3.6 Fixed Spot Non-Contact Thermometer Market: Overall Company Footprint Analysis

3.6.1 Fixed Spot Non-Contact Thermometer Market: Region Footprint

3.6.2 Fixed Spot Non-Contact Thermometer Market: Company Product Type Footprint

3.6.3 Fixed Spot Non-Contact Thermometer 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: Fixed Spot Non-Contact Thermometer Production Value Comparison

4.1.1 United States VS China: Fixed Spot Non-Contact Thermometer Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Fixed Spot Non-Contact Thermometer Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Fixed Spot Non-Contact Thermometer Production Comparison

4.2.1 United States VS China: Fixed Spot Non-Contact Thermometer Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Fixed Spot Non-Contact Thermometer Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Fixed Spot Non-Contact Thermometer Consumption Comparison

4.3.1 United States VS China: Fixed Spot Non-Contact Thermometer Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Fixed Spot Non-Contact Thermometer Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Fixed Spot Non-Contact Thermometer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value (2021-2026)

4.4.3 United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production (2021-2026)

4.5 China Based Fixed Spot Non-Contact Thermometer Manufacturers and Market Share

4.5.1 China Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value (2021-2026)

4.5.3 China Based Manufacturers Fixed Spot Non-Contact Thermometer Production (2021-2026)

4.6 Rest of World Based Fixed Spot Non-Contact Thermometer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production (2021-2026)

5 MARKET ANALYSIS BY MEASUREMENT RANGE

- 5.1 World Fixed Spot Non-Contact Thermometer Market Size Overview by Measurement Range: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Measurement Range
 - 5.2.1 High-Temperature Type (above 500?)
 - 5.2.2 Medium-Temperature Type (50?-500?)
 - 5.2.3 Low-Temperature Type (below 50?)
- 5.3 Market Segment by Measurement Range
 - 5.3.1 World Fixed Spot Non-Contact Thermometer Production by Measurement Range (2021-2032)
 - 5.3.2 World Fixed Spot Non-Contact Thermometer Production Value by Measurement Range (2021-2032)
 - 5.3.3 World Fixed Spot Non-Contact Thermometer Average Price by Measurement Range (2021-2032)

6 MARKET ANALYSIS BY DETECTION TECHNOLOGY

- 6.1 World Fixed Spot Non-Contact Thermometer Market Size Overview by Detection Technology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Detection Technology
 - 6.2.1 Infrared Radiation Type
 - 6.2.2 Thermal Imager Type
 - 6.2.3 Laser-Assisted Type
 - 6.2.4 Others
- 6.3 Market Segment by Detection Technology
 - 6.3.1 World Fixed Spot Non-Contact Thermometer Production by Detection Technology (2021-2032)
 - 6.3.2 World Fixed Spot Non-Contact Thermometer Production Value by Detection Technology (2021-2032)
 - 6.3.3 World Fixed Spot Non-Contact Thermometer Average Price by Detection Technology (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

- 7.1 World Fixed Spot Non-Contact Thermometer Market Size Overview by Application: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Application
 - 7.2.1 Industrial Production
 - 7.2.2 Public Health
 - 7.2.3 Building Detection

7.2.4 Scientific Research

7.2.5 Others

7.3 Market Segment by Application

7.3.1 World Fixed Spot Non-Contact Thermometer Production by Application
(2021-2032)

7.3.2 World Fixed Spot Non-Contact Thermometer Production Value by Application
(2021-2032)

7.3.3 World Fixed Spot Non-Contact Thermometer Average Price by Application
(2021-2032)

8 COMPANY PROFILES

8.1 AMETEK

8.1.1 AMETEK Details

8.1.2 AMETEK Major Business

8.1.3 AMETEK Fixed Spot Non-Contact Thermometer Product and Services

8.1.4 AMETEK Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross
Margin and Market Share (2021-2026)

8.1.5 AMETEK Recent Developments/Updates

8.1.6 AMETEK Competitive Strengths & Weaknesses

8.2 Omega

8.2.1 Omega Details

8.2.2 Omega Major Business

8.2.3 Omega Fixed Spot Non-Contact Thermometer Product and Services

8.2.4 Omega Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross
Margin and Market Share (2021-2026)

8.2.5 Omega Recent Developments/Updates

8.2.6 Omega Competitive Strengths & Weaknesses

8.3 Calnex Electronics

8.3.1 Calnex Electronics Details

8.3.2 Calnex Electronics Major Business

8.3.3 Calnex Electronics Fixed Spot Non-Contact Thermometer Product and Services

8.3.4 Calnex Electronics Fixed Spot Non-Contact Thermometer Production, Price, Value,
Gross Margin and Market Share (2021-2026)

8.3.5 Calnex Electronics Recent Developments/Updates

8.3.6 Calnex Electronics Competitive Strengths & Weaknesses

8.4 Fluke Process Instruments

8.4.1 Fluke Process Instruments Details

8.4.2 Fluke Process Instruments Major Business

- 8.4.3 Fluke Process Instruments Fixed Spot Non-Contact Thermometer Product and Services
- 8.4.4 Fluke Process Instruments Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 Fluke Process Instruments Recent Developments/Updates
- 8.4.6 Fluke Process Instruments Competitive Strengths & Weaknesses
- 8.5 Optris
 - 8.5.1 Optris Details
 - 8.5.2 Optris Major Business
 - 8.5.3 Optris Fixed Spot Non-Contact Thermometer Product and Services
 - 8.5.4 Optris Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Optris Recent Developments/Updates
 - 8.5.6 Optris Competitive Strengths & Weaknesses
- 8.6 Advanced Energy (Impac)
 - 8.6.1 Advanced Energy (Impac) Details
 - 8.6.2 Advanced Energy (Impac) Major Business
 - 8.6.3 Advanced Energy (Impac) Fixed Spot Non-Contact Thermometer Product and Services
 - 8.6.4 Advanced Energy (Impac) Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Advanced Energy (Impac) Recent Developments/Updates
 - 8.6.6 Advanced Energy (Impac) Competitive Strengths & Weaknesses
- 8.7 Process Sensors
 - 8.7.1 Process Sensors Details
 - 8.7.2 Process Sensors Major Business
 - 8.7.3 Process Sensors Fixed Spot Non-Contact Thermometer Product and Services
 - 8.7.4 Process Sensors Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Process Sensors Recent Developments/Updates
 - 8.7.6 Process Sensors Competitive Strengths & Weaknesses
- 8.8 Keller ITS
 - 8.8.1 Keller ITS Details
 - 8.8.2 Keller ITS Major Business
 - 8.8.3 Keller ITS Fixed Spot Non-Contact Thermometer Product and Services
 - 8.8.4 Keller ITS Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Keller ITS Recent Developments/Updates
 - 8.8.6 Keller ITS Competitive Strengths & Weaknesses

8.9 HEITRONICS

8.9.1 HEITRONICS Details

8.9.2 HEITRONICS Major Business

8.9.3 HEITRONICS Fixed Spot Non-Contact Thermometer Product and Services

8.9.4 HEITRONICS Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 HEITRONICS Recent Developments/Updates

8.9.6 HEITRONICS Competitive Strengths & Weaknesses

8.10 Williamson

8.10.1 Williamson Details

8.10.2 Williamson Major Business

8.10.3 Williamson Fixed Spot Non-Contact Thermometer Product and Services

8.10.4 Williamson Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Williamson Recent Developments/Updates

8.10.6 Williamson Competitive Strengths & Weaknesses

8.11 Micro-Epsilon

8.11.1 Micro-Epsilon Details

8.11.2 Micro-Epsilon Major Business

8.11.3 Micro-Epsilon Fixed Spot Non-Contact Thermometer Product and Services

8.11.4 Micro-Epsilon Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Micro-Epsilon Recent Developments/Updates

8.11.6 Micro-Epsilon Competitive Strengths & Weaknesses

8.12 Sensortherm

8.12.1 Sensortherm Details

8.12.2 Sensortherm Major Business

8.12.3 Sensortherm Fixed Spot Non-Contact Thermometer Product and Services

8.12.4 Sensortherm Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Sensortherm Recent Developments/Updates

8.12.6 Sensortherm Competitive Strengths & Weaknesses

8.13 CHINO

8.13.1 CHINO Details

8.13.2 CHINO Major Business

8.13.3 CHINO Fixed Spot Non-Contact Thermometer Product and Services

8.13.4 CHINO Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 CHINO Recent Developments/Updates

8.13.6 CHINO Competitive Strengths & Weaknesses

8.14 OPTEX FA

8.14.1 OPTEX FA Details

8.14.2 OPTEX FA Major Business

8.14.3 OPTEX FA Fixed Spot Non-Contact Thermometer Product and Services

8.14.4 OPTEX FA Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 OPTEX FA Recent Developments/Updates

8.14.6 OPTEX FA Competitive Strengths & Weaknesses

8.15 Haining Dongben Measurement and Control Technology

8.15.1 Haining Dongben Measurement and Control Technology Details

8.15.2 Haining Dongben Measurement and Control Technology Major Business

8.15.3 Haining Dongben Measurement and Control Technology Fixed Spot Non-Contact Thermometer Product and Services

8.15.4 Haining Dongben Measurement and Control Technology Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Haining Dongben Measurement and Control Technology Recent Developments/Updates

8.15.6 Haining Dongben Measurement and Control Technology Competitive Strengths & Weaknesses

8.16 Wuhan Dikai Optoelectronic Technology

8.16.1 Wuhan Dikai Optoelectronic Technology Details

8.16.2 Wuhan Dikai Optoelectronic Technology Major Business

8.16.3 Wuhan Dikai Optoelectronic Technology Fixed Spot Non-Contact Thermometer Product and Services

8.16.4 Wuhan Dikai Optoelectronic Technology Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Wuhan Dikai Optoelectronic Technology Recent Developments/Updates

8.16.6 Wuhan Dikai Optoelectronic Technology Competitive Strengths & Weaknesses

8.17 Xi'an Delong Automation Instrument

8.17.1 Xi'an Delong Automation Instrument Details

8.17.2 Xi'an Delong Automation Instrument Major Business

8.17.3 Xi'an Delong Automation Instrument Fixed Spot Non-Contact Thermometer Product and Services

8.17.4 Xi'an Delong Automation Instrument Fixed Spot Non-Contact Thermometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Xi'an Delong Automation Instrument Recent Developments/Updates

8.17.6 Xi'an Delong Automation Instrument Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Fixed Spot Non-Contact Thermometer Industry Chain
- 9.2 Fixed Spot Non-Contact Thermometer Upstream Analysis
 - 9.2.1 Fixed Spot Non-Contact Thermometer Core Raw Materials
 - 9.2.2 Main Manufacturers of Fixed Spot Non-Contact Thermometer Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Fixed Spot Non-Contact Thermometer Production Mode
- 9.6 Fixed Spot Non-Contact Thermometer Procurement Model
- 9.7 Fixed Spot Non-Contact Thermometer Industry Sales Model and Sales Channels
 - 9.7.1 Fixed Spot Non-Contact Thermometer Sales Model
 - 9.7.2 Fixed Spot Non-Contact Thermometer 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 Fixed Spot Non-Contact Thermometer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Fixed Spot Non-Contact Thermometer Production Value by Region (2021-2026) & (USD Million)

Table 3. World Fixed Spot Non-Contact Thermometer Production Value by Region (2027-2032) & (USD Million)

Table 4. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Region (2021-2026)

Table 5. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Region (2027-2032)

Table 6. World Fixed Spot Non-Contact Thermometer Production by Region (2021-2026) & (K Units)

Table 7. World Fixed Spot Non-Contact Thermometer Production by Region (2027-2032) & (K Units)

Table 8. World Fixed Spot Non-Contact Thermometer Production Market Share by Region (2021-2026)

Table 9. World Fixed Spot Non-Contact Thermometer Production Market Share by Region (2027-2032)

Table 10. World Fixed Spot Non-Contact Thermometer Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Fixed Spot Non-Contact Thermometer Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Fixed Spot Non-Contact Thermometer Major Market Trends

Table 13. World Fixed Spot Non-Contact Thermometer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Fixed Spot Non-Contact Thermometer Consumption by Region (2021-2026) & (K Units)

Table 15. World Fixed Spot Non-Contact Thermometer Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Fixed Spot Non-Contact Thermometer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Fixed Spot Non-Contact Thermometer Producers in 2025

Table 18. World Fixed Spot Non-Contact Thermometer Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Fixed Spot Non-Contact Thermometer Producers in 2025

Table 20. World Fixed Spot Non-Contact Thermometer Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Fixed Spot Non-Contact Thermometer Company Evaluation Quadrant

Table 22. World Fixed Spot Non-Contact Thermometer Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Fixed Spot Non-Contact Thermometer Production Site of Key Manufacturer

Table 24. Fixed Spot Non-Contact Thermometer Market: Company Product Type Footprint

Table 25. Fixed Spot Non-Contact Thermometer Market: Company Product Application Footprint

Table 26. Fixed Spot Non-Contact Thermometer Competitive Factors

Table 27. Fixed Spot Non-Contact Thermometer New Entrant and Capacity Expansion Plans

Table 28. Fixed Spot Non-Contact Thermometer Mergers & Acquisitions Activity

Table 29. United States VS China Fixed Spot Non-Contact Thermometer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Fixed Spot Non-Contact Thermometer Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Fixed Spot Non-Contact Thermometer Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share (2021-2026)

Table 37. China Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Fixed Spot Non-Contact Thermometer Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share (2021-2026)

Table 42. Rest of World Based Fixed Spot Non-Contact Thermometer Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share (2021-2026)

Table 47. World Fixed Spot Non-Contact Thermometer Production Value by Measurement Range, (USD Million), 2021 & 2025 & 2032

Table 48. World Fixed Spot Non-Contact Thermometer Production by Measurement Range (2021-2026) & (K Units)

Table 49. World Fixed Spot Non-Contact Thermometer Production by Measurement Range (2027-2032) & (K Units)

Table 50. World Fixed Spot Non-Contact Thermometer Production Value by Measurement Range (2021-2026) & (USD Million)

Table 51. World Fixed Spot Non-Contact Thermometer Production Value by Measurement Range (2027-2032) & (USD Million)

Table 52. World Fixed Spot Non-Contact Thermometer Average Price by Measurement Range (2021-2026) & (US\$/Unit)

Table 53. World Fixed Spot Non-Contact Thermometer Average Price by Measurement Range (2027-2032) & (US\$/Unit)

Table 54. World Fixed Spot Non-Contact Thermometer Production Value by Detection Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Fixed Spot Non-Contact Thermometer Production by Detection Technology (2021-2026) & (K Units)

Table 56. World Fixed Spot Non-Contact Thermometer Production by Detection Technology (2027-2032) & (K Units)

Table 57. World Fixed Spot Non-Contact Thermometer Production Value by Detection Technology (2021-2026) & (USD Million)

Table 58. World Fixed Spot Non-Contact Thermometer Production Value by Detection Technology (2027-2032) & (USD Million)

Table 59. World Fixed Spot Non-Contact Thermometer Average Price by Detection

Technology (2021-2026) & (US\$/Unit)

Table 60. World Fixed Spot Non-Contact Thermometer Average Price by Detection Technology (2027-2032) & (US\$/Unit)

Table 61. World Fixed Spot Non-Contact Thermometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Fixed Spot Non-Contact Thermometer Production by Application (2021-2026) & (K Units)

Table 63. World Fixed Spot Non-Contact Thermometer Production by Application (2027-2032) & (K Units)

Table 64. World Fixed Spot Non-Contact Thermometer Production Value by Application (2021-2026) & (USD Million)

Table 65. World Fixed Spot Non-Contact Thermometer Production Value by Application (2027-2032) & (USD Million)

Table 66. World Fixed Spot Non-Contact Thermometer Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Fixed Spot Non-Contact Thermometer Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. AMETEK Basic Information, Manufacturing Base and Competitors

Table 69. AMETEK Major Business

Table 70. AMETEK Fixed Spot Non-Contact Thermometer Product and Services

Table 71. AMETEK Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. AMETEK Recent Developments/Updates

Table 73. AMETEK Competitive Strengths & Weaknesses

Table 74. Omega Basic Information, Manufacturing Base and Competitors

Table 75. Omega Major Business

Table 76. Omega Fixed Spot Non-Contact Thermometer Product and Services

Table 77. Omega Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Omega Recent Developments/Updates

Table 79. Omega Competitive Strengths & Weaknesses

Table 80. Calex Electronics Basic Information, Manufacturing Base and Competitors

Table 81. Calex Electronics Major Business

Table 82. Calex Electronics Fixed Spot Non-Contact Thermometer Product and Services

Table 83. Calex Electronics Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 84. Calex Electronics Recent Developments/Updates

Table 85. Calex Electronics Competitive Strengths & Weaknesses

Table 86. Fluke Process Instruments Basic Information, Manufacturing Base and Competitors

Table 87. Fluke Process Instruments Major Business

Table 88. Fluke Process Instruments Fixed Spot Non-Contact Thermometer Product and Services

Table 89. Fluke Process Instruments Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Fluke Process Instruments Recent Developments/Updates

Table 91. Fluke Process Instruments Competitive Strengths & Weaknesses

Table 92. Optris Basic Information, Manufacturing Base and Competitors

Table 93. Optris Major Business

Table 94. Optris Fixed Spot Non-Contact Thermometer Product and Services

Table 95. Optris Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Optris Recent Developments/Updates

Table 97. Optris Competitive Strengths & Weaknesses

Table 98. Advanced Energy (Impac) Basic Information, Manufacturing Base and Competitors

Table 99. Advanced Energy (Impac) Major Business

Table 100. Advanced Energy (Impac) Fixed Spot Non-Contact Thermometer Product and Services

Table 101. Advanced Energy (Impac) Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Advanced Energy (Impac) Recent Developments/Updates

Table 103. Advanced Energy (Impac) Competitive Strengths & Weaknesses

Table 104. Process Sensors Basic Information, Manufacturing Base and Competitors

Table 105. Process Sensors Major Business

Table 106. Process Sensors Fixed Spot Non-Contact Thermometer Product and Services

Table 107. Process Sensors Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Process Sensors Recent Developments/Updates

Table 109. Process Sensors Competitive Strengths & Weaknesses
Table 110. Keller ITS Basic Information, Manufacturing Base and Competitors
Table 111. Keller ITS Major Business
Table 112. Keller ITS Fixed Spot Non-Contact Thermometer Product and Services
Table 113. Keller ITS Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Keller ITS Recent Developments/Updates
Table 115. Keller ITS Competitive Strengths & Weaknesses
Table 116. HEITRONICS Basic Information, Manufacturing Base and Competitors
Table 117. HEITRONICS Major Business
Table 118. HEITRONICS Fixed Spot Non-Contact Thermometer Product and Services
Table 119. HEITRONICS Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 120. HEITRONICS Recent Developments/Updates
Table 121. HEITRONICS Competitive Strengths & Weaknesses
Table 122. Williamson Basic Information, Manufacturing Base and Competitors
Table 123. Williamson Major Business
Table 124. Williamson Fixed Spot Non-Contact Thermometer Product and Services
Table 125. Williamson Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 126. Williamson Recent Developments/Updates
Table 127. Williamson Competitive Strengths & Weaknesses
Table 128. Micro-Epsilon Basic Information, Manufacturing Base and Competitors
Table 129. Micro-Epsilon Major Business
Table 130. Micro-Epsilon Fixed Spot Non-Contact Thermometer Product and Services
Table 131. Micro-Epsilon Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 132. Micro-Epsilon Recent Developments/Updates
Table 133. Micro-Epsilon Competitive Strengths & Weaknesses
Table 134. Sensortherm Basic Information, Manufacturing Base and Competitors
Table 135. Sensortherm Major Business
Table 136. Sensortherm Fixed Spot Non-Contact Thermometer Product and Services
Table 137. Sensortherm Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Sensortherm Recent Developments/Updates
Table 139. Sensortherm Competitive Strengths & Weaknesses
Table 140. CHINO Basic Information, Manufacturing Base and Competitors
Table 141. CHINO Major Business
Table 142. CHINO Fixed Spot Non-Contact Thermometer Product and Services
Table 143. CHINO Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 144. CHINO Recent Developments/Updates
Table 145. CHINO Competitive Strengths & Weaknesses
Table 146. OPTEX FA Basic Information, Manufacturing Base and Competitors
Table 147. OPTEX FA Major Business
Table 148. OPTEX FA Fixed Spot Non-Contact Thermometer Product and Services
Table 149. OPTEX FA Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 150. OPTEX FA Recent Developments/Updates
Table 151. OPTEX FA Competitive Strengths & Weaknesses
Table 152. Haining Dongben Measurement and Control Technology Basic Information, Manufacturing Base and Competitors
Table 153. Haining Dongben Measurement and Control Technology Major Business
Table 154. Haining Dongben Measurement and Control Technology Fixed Spot Non-Contact Thermometer Product and Services
Table 155. Haining Dongben Measurement and Control Technology Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 156. Haining Dongben Measurement and Control Technology Recent Developments/Updates
Table 157. Haining Dongben Measurement and Control Technology Competitive Strengths & Weaknesses
Table 158. Wuhan Dikai Optoelectronic Technology Basic Information, Manufacturing Base and Competitors
Table 159. Wuhan Dikai Optoelectronic Technology Major Business
Table 160. Wuhan Dikai Optoelectronic Technology Fixed Spot Non-Contact Thermometer Product and Services
Table 161. Wuhan Dikai Optoelectronic Technology Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 162. Wuhan Dikai Optoelectronic Technology Recent Developments/Updates

Table 163. Wuhan Dikai Optoelectronic Technology Competitive Strengths & Weaknesses

Table 164. Xi'an Delong Automation Instrument Basic Information, Manufacturing Base and Competitors

Table 165. Xi'an Delong Automation Instrument Major Business

Table 166. Xi'an Delong Automation Instrument Fixed Spot Non-Contact Thermometer Product and Services

Table 167. Xi'an Delong Automation Instrument Fixed Spot Non-Contact Thermometer Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Xi'an Delong Automation Instrument Recent Developments/Updates

Table 169. Xi'an Delong Automation Instrument Competitive Strengths & Weaknesses

Table 170. Global Key Players of Fixed Spot Non-Contact Thermometer Upstream (Raw Materials)

Table 171. Global Fixed Spot Non-Contact Thermometer Typical Customers

Table 172. Fixed Spot Non-Contact Thermometer Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Fixed Spot Non-Contact Thermometer Picture

Figure 2. World Fixed Spot Non-Contact Thermometer Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Fixed Spot Non-Contact Thermometer Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Fixed Spot Non-Contact Thermometer Production (2021-2032) & (K Units)

Figure 5. World Fixed Spot Non-Contact Thermometer Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Region (2021-2032)

Figure 7. World Fixed Spot Non-Contact Thermometer Production Market Share by Region (2021-2032)

Figure 8. North America Fixed Spot Non-Contact Thermometer Production (2021-2032) & (K Units)

Figure 9. Europe Fixed Spot Non-Contact Thermometer Production (2021-2032) & (K Units)

Figure 10. China Fixed Spot Non-Contact Thermometer Production (2021-2032) & (K Units)

Figure 11. Japan Fixed Spot Non-Contact Thermometer Production (2021-2032) & (K Units)

Figure 12. Fixed Spot Non-Contact Thermometer Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)

Figure 15. World Fixed Spot Non-Contact Thermometer Consumption Market Share by Region (2021-2032)

Figure 16. United States Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)

Figure 17. China Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)

Figure 18. Europe Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)

Figure 19. Japan Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)

- Figure 20. South Korea Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)
- Figure 22. India Fixed Spot Non-Contact Thermometer Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Fixed Spot Non-Contact Thermometer by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Fixed Spot Non-Contact Thermometer Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Fixed Spot Non-Contact Thermometer Markets in 2025
- Figure 26. United States VS China: Fixed Spot Non-Contact Thermometer Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Fixed Spot Non-Contact Thermometer Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Fixed Spot Non-Contact Thermometer Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share 2025
- Figure 30. China Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Fixed Spot Non-Contact Thermometer Production Market Share 2025
- Figure 32. World Fixed Spot Non-Contact Thermometer Production Value by Measurement Range, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Measurement Range in 2025
- Figure 34. High-Temperature Type (above 500?)
- Figure 35. Medium-Temperature Type (50?-500?)
- Figure 36. Low-Temperature Type (below 50?)
- Figure 37. World Fixed Spot Non-Contact Thermometer Production Market Share by Measurement Range (2021-2032)
- Figure 38. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Measurement Range (2021-2032)
- Figure 39. World Fixed Spot Non-Contact Thermometer Average Price by Measurement Range (2021-2032) & (US\$/Unit)
- Figure 40. World Fixed Spot Non-Contact Thermometer Production Value by Detection Technology, (USD Million), 2021 & 2025 & 2032

Figure 41. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Detection Technology in 2025

Figure 42. Infrared Radiation Type

Figure 43. Thermal Imager Type

Figure 44. Laser-Assisted Type

Figure 45. Others

Figure 46. World Fixed Spot Non-Contact Thermometer Production Market Share by Detection Technology (2021-2032)

Figure 47. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Detection Technology (2021-2032)

Figure 48. World Fixed Spot Non-Contact Thermometer Average Price by Detection Technology (2021-2032) & (US\$/Unit)

Figure 49. World Fixed Spot Non-Contact Thermometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Application in 2025

Figure 51. Industrial Production

Figure 52. Public Health

Figure 53. Building Detection

Figure 54. Scientific Research

Figure 55. Others

Figure 56. World Fixed Spot Non-Contact Thermometer Production Market Share by Application (2021-2032)

Figure 57. World Fixed Spot Non-Contact Thermometer Production Value Market Share by Application (2021-2032)

Figure 58. World Fixed Spot Non-Contact Thermometer Average Price by Application (2021-2032) & (US\$/Unit)

Figure 59. Fixed Spot Non-Contact Thermometer Industry Chain

Figure 60. Fixed Spot Non-Contact Thermometer Procurement Model

Figure 61. Fixed Spot Non-Contact Thermometer Sales Model

Figure 62. Fixed Spot Non-Contact Thermometer Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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