

# **Global Infrared Thermometer Market Size, Share & Forecast, by Type (Fixed and Portable), by Component (Optical and Display & Interface Units), by Application (Medical and Non-Medical) and Regional Forecasts 2025–2035**

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## **Abstracts**

### Market Definition and Overview

The Global Infrared Thermometer Market was valued at approximately USD 3.3 billion in 2024 and is projected to expand at a CAGR of 9.20% over the forecast period from 2025 to 2035. Infrared thermometers are non-contact temperature measurement instruments that detect thermal radiation emitted from an object's surface to determine its temperature accurately. These devices have become indispensable across healthcare, manufacturing, food safety, and HVAC industries due to their precision, speed, and hygiene advantages. The COVID-19 pandemic served as a catalyst that accelerated global adoption, pushing manufacturers to enhance sensor sensitivity, accuracy, and digital integration. Today, infrared thermometers are not only vital in hospitals and clinics but also in industrial and residential settings, where they help monitor equipment efficiency, maintain product safety, and ensure environmental control. The rapid pace of sensor innovation, coupled with advancements in optical technology, has fortified the market's momentum worldwide.

### Market Drivers and Opportunities

The expansion of the infrared thermometer market is being driven by heightened health awareness, industrial automation, and safety compliance regulations across sectors. With healthcare systems increasingly emphasizing preventive diagnostics and rapid temperature screening, demand for reliable infrared thermometers continues to soar.

Moreover, the rise in smart healthcare infrastructure, especially in developing economies, is reshaping the competitive landscape. The technology's seamless integration with Bluetooth, IoT, and AI-based monitoring systems further fuels market growth, enabling remote and real-time temperature tracking. Beyond healthcare, the demand from industrial and commercial applications—such as process monitoring, electronic equipment testing, and food preservation—adds additional layers of opportunity. However, the proliferation of low-quality consumer-grade devices and calibration issues may slightly restrain growth. Nonetheless, ongoing R&D in optical sensors and miniaturized microprocessor units is anticipated to overcome such challenges and unlock broader potential during 2025–2035.

**The detailed segments and sub-segments included in the report are:**

By Type:

Fixed

Portable

By Component:

Optical

Display & Interface Units

By Application:

Medical

Non-Medical

By Region:

North America

U.S.

Canada

## Europe

UK

Germany

France

Italy

Spain

Rest of Europe

## Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

## Latin America

Brazil

Mexico

## Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Segment Insights

### Portable Infrared Thermometers Expected to Dominate the Market

Portable infrared thermometers are anticipated to maintain dominance throughout the forecast period, holding the majority of the market share. Their compact design, user-friendly interface, and versatility in both clinical and industrial settings have made them the preferred choice for temperature monitoring. These devices are particularly valued for their flexibility, allowing users to conduct spot checks in real-time without physical contact, which enhances hygiene and efficiency. The rising demand from healthcare facilities, logistics hubs, and manufacturing plants continues to drive their adoption. In contrast, fixed infrared thermometers, which are more suitable for continuous monitoring in industrial environments, are projected to grow steadily as automation trends expand. Nevertheless, the portability, affordability, and advanced digital features of handheld models ensure they remain the cornerstone of the infrared thermometer market.

### Optical Components Lead in Revenue Contribution

When analyzed by components, optical systems currently account for the largest share of total market revenue. These components serve as the technological heart of infrared thermometers, capturing and converting emitted radiation into temperature data with precision. The ongoing innovations in optical lens materials and sensor design have enhanced measurement accuracy, reliability, and energy efficiency, particularly in high-speed industrial and clinical applications. Meanwhile, display and interface units are expected to experience rapid growth, driven by increasing integration with smart devices and demand for digital connectivity in medical diagnostics. The convergence of

optics and interface technologies is redefining product functionality, with manufacturers focusing on intuitive designs and data analytics to improve user experience. Overall, optical advancements will continue to steer the industry's value trajectory in the years ahead.

## Regional Insights

The Global Infrared Thermometer Market spans major regions including North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently dominates the market, underpinned by strong healthcare infrastructure, robust R&D investment, and early adoption of digital diagnostic devices. The region's focus on patient safety and industrial automation also reinforces its leadership position. Meanwhile, Asia Pacific is forecasted to be the fastest-growing region during 2025–2035, driven by a surge in healthcare modernization, increasing industrial output, and supportive government initiatives in countries like China, Japan, and India. Europe retains a significant share, propelled by stringent regulatory standards and widespread adoption in pharmaceutical and food processing sectors. Additionally, the expanding commercial and industrial applications across emerging economies such as Brazil, Saudi Arabia, and the UAE further enhance global market prospects.

Major market players included in this report are:

Fluke Corporation

Braun GmbH

Omron Healthcare, Inc.

Microlife Corporation

PCE Instruments

AMETEK Land

Testo SE & Co. KGaA

Thermomedics Inc.

Welch Allyn, Inc.

Extech Instruments

B. Braun Melsungen AG

Medline Industries, LP

Omega Engineering Inc.

Infrared Cameras Inc.

Geratherm Medical AG

#### Global Infrared Thermometer Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for

stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

#### Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL INFRARED THERMOMETER MARKET REPORT SCOPE & METHODOLOGY**

- 1.1. Research Objective
- 1.2. Research Methodology
  - 1.2.1. Forecast Model
  - 1.2.2. Desk Research
  - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
  - 1.4.1. Market Definition
  - 1.4.2. Market Segmentation
- 1.5. Research Assumption
  - 1.5.1. Inclusion & Exclusion
  - 1.5.2. Limitations
  - 1.5.3. Years Considered for the Study

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

### **CHAPTER 3. GLOBAL INFRARED THERMOMETER MARKET FORCES ANALYSIS**

- 3.1. Market Forces Shaping The Global Infrared Thermometer Market (2024-2035)
- 3.2. Drivers
  - 3.2.1. heightened health awareness
  - 3.2.2. Increasing industrial automation
- 3.3. Restraints
  - 3.3.1. proliferation of low-quality consumer-grade devices and calibration issues
- 3.4. Opportunities
  - 3.4.1. ongoing R&D in optical sensors and miniaturized microprocessor units

### **CHAPTER 4. GLOBAL INFRARED THERMOMETER INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Forces Model
  - 4.1.1. Bargaining Power of Buyer
  - 4.1.2. Bargaining Power of Supplier
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL INFRARED THERMOMETER MARKET SIZE & FORECASTS BY TYPE 2025-2035**

- 5.1. Market Overview
- 5.2. Global Infrared Thermometer Market Performance - Potential Analysis (2025)
- 5.3. Fixed
  - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Portable
  - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 5.4.2. Market size analysis, by region, 2025-2035

## **CHAPTER 6. GLOBAL INFRARED THERMOMETER MARKET SIZE & FORECASTS BY COMPONENT 2025-2035**

- 6.1. Market Overview
- 6.2. Global Infrared Thermometer Market Performance - Potential Analysis (2025)
- 6.3. Optical
  - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

- 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Display & Interface Units
  - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 6.4.2. Market size analysis, by region, 2025-2035

## **CHAPTER 7. GLOBAL INFRARED THERMOMETER MARKET SIZE & FORECASTS BY APPLICATION 2025–2035**

- 7.1. Market Overview
- 7.2. Global Infrared Thermometer Market Performance - Potential Analysis (2025)
- 7.3. Medical
  - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 7.3.2. Market size analysis, by region, 2025-2035
- 7.4. Non medical
  - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
  - 7.4.2. Market size analysis, by region, 2025-2035

## **CHAPTER 8. GLOBAL INFRARED THERMOMETER MARKET SIZE & FORECASTS BY REGION 2025–2035**

- 8.1. Growth Infrared Thermometer Market, Regional Market Snapshot
- 8.2. Top Leading & Emerging Countries
- 8.3. North America Infrared Thermometer Market
  - 8.3.1. U.S. Infrared Thermometer Market
    - 8.3.1.1. Type breakdown size & forecasts, 2025-2035
    - 8.3.1.2. Component breakdown size & forecasts, 2025-2035
    - 8.3.1.3. Application breakdown size & forecasts, 2025-2035
  - 8.3.2. Canada Infrared Thermometer Market
    - 8.3.2.1. Type breakdown size & forecasts, 2025-2035
    - 8.3.2.2. Component breakdown size & forecasts, 2025-2035
    - 8.3.2.3. Application breakdown size & forecasts, 2025-2035
- 8.4. Europe Infrared Thermometer Market
  - 8.4.1. UK Infrared Thermometer Market
    - 8.4.1.1. Type breakdown size & forecasts, 2025-2035
    - 8.4.1.2. Component breakdown size & forecasts, 2025-2035
    - 8.4.1.3. Application breakdown size & forecasts, 2025-2035
  - 8.4.2. Germany Infrared Thermometer Market
    - 8.4.2.1. Type breakdown size & forecasts, 2025-2035
    - 8.4.2.2. Component breakdown size & forecasts, 2025-2035

- 8.4.2.3. Application breakdown size & forecasts, 2025-2035
- 8.4.3. France Infrared Thermometer Market
  - 8.4.3.1. Type breakdown size & forecasts, 2025-2035
  - 8.4.3.2. Component breakdown size & forecasts, 2025-2035
  - 8.4.3.3. Application breakdown size & forecasts, 2025-2035
- 8.4.4. Spain Infrared Thermometer Market
  - 8.4.4.1. Type breakdown size & forecasts, 2025-2035
  - 8.4.4.2. Component breakdown size & forecasts, 2025-2035
  - 8.4.4.3. Application breakdown size & forecasts, 2025-2035
- 8.4.5. Italy Infrared Thermometer Market
  - 8.4.5.1. Type breakdown size & forecasts, 2025-2035
  - 8.4.5.2. Component breakdown size & forecasts, 2025-2035
  - 8.4.5.3. Application breakdown size & forecasts, 2025-2035
- 8.4.6. Rest of Europe Infrared Thermometer Market
  - 8.4.6.1. Type breakdown size & forecasts, 2025-2035
  - 8.4.6.2. Component breakdown size & forecasts, 2025-2035
  - 8.4.6.3. Application breakdown size & forecasts, 2025-2035
- 8.5. Asia Pacific Infrared Thermometer Market
  - 8.5.1. China Infrared Thermometer Market
    - 8.5.1.1. Type breakdown size & forecasts, 2025-2035
    - 8.5.1.2. Component breakdown size & forecasts, 2025-2035
    - 8.5.1.3. Application breakdown size & forecasts, 2025-2035
  - 8.5.2. India Infrared Thermometer Market
    - 8.5.2.1. Type breakdown size & forecasts, 2025-2035
    - 8.5.2.2. Component breakdown size & forecasts, 2025-2035
    - 8.5.2.3. Application breakdown size & forecasts, 2025-2035
  - 8.5.3. Japan Infrared Thermometer Market
    - 8.5.3.1. Type breakdown size & forecasts, 2025-2035
    - 8.5.3.2. Component breakdown size & forecasts, 2025-2035
    - 8.5.3.3. Application breakdown size & forecasts, 2025-2035
  - 8.5.4. Australia Infrared Thermometer Market
    - 8.5.4.1. Type breakdown size & forecasts, 2025-2035
    - 8.5.4.2. Component breakdown size & forecasts, 2025-2035
    - 8.5.4.3. Application breakdown size & forecasts, 2025-2035
  - 8.5.5. South Korea Infrared Thermometer Market
    - 8.5.5.1. Type breakdown size & forecasts, 2025-2035
    - 8.5.5.2. Component breakdown size & forecasts, 2025-2035
    - 8.5.5.3. Application breakdown size & forecasts, 2025-2035
  - 8.5.6. Rest of APAC Infrared Thermometer Market

- 8.5.6.1. Type breakdown size & forecasts, 2025-2035
- 8.5.6.2. Component breakdown size & forecasts, 2025-2035
- 8.5.6.3. Application breakdown size & forecasts, 2025-2035
- 8.6. Latin America Infrared Thermometer Market
  - 8.6.1. Brazil Infrared Thermometer Market
    - 8.6.1.1. Type breakdown size & forecasts, 2025-2035
    - 8.6.1.2. Component breakdown size & forecasts, 2025-2035
    - 8.6.1.3. Application breakdown size & forecasts, 2025-2035
  - 8.6.2. Mexico Infrared Thermometer Market
    - 8.6.2.1. Type breakdown size & forecasts, 2025-2035
    - 8.6.2.2. Component breakdown size & forecasts, 2025-2035
    - 8.6.2.3. Application breakdown size & forecasts, 2025-2035
- 8.7. Middle East and Africa Infrared Thermometer Market
  - 8.7.1. UAE Infrared Thermometer Market
    - 8.7.1.1. Type breakdown size & forecasts, 2025-2035
    - 8.7.1.2. Component breakdown size & forecasts, 2025-2035
    - 8.7.1.3. Application breakdown size & forecasts, 2025-2035
  - 8.7.2. Saudi Arabia (KSA) Infrared Thermometer Market
    - 8.7.2.1. Type breakdown size & forecasts, 2025-2035
    - 8.7.2.2. Component breakdown size & forecasts, 2025-2035
    - 8.7.2.3. Application breakdown size & forecasts, 2025-2035
  - 8.7.3. South Africa Infrared Thermometer Market
    - 8.7.3.1. Type breakdown size & forecasts, 2025-2035
    - 8.7.3.2. Component breakdown size & forecasts, 2025-2035
    - 8.7.3.3. Application breakdown size & forecasts, 2025-2035

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Top Market Strategies
- 9.2. Fluke Corporation
  - 9.2.1. Company Overview
  - 9.2.2. Key Executives
  - 9.2.3. Company Snapshot
  - 9.2.4. Financial Performance (Subject to Data Availability)
  - 9.2.5. Product/Services Port
  - 9.2.6. Recent Development
  - 9.2.7. Market Strategies
  - 9.2.8. SWOT Analysis
- 9.3. Braun GmbH

- 9.4. Omron Healthcare, Inc.
- 9.5. Microlife Corporation
- 9.6. PCE Instruments
- 9.7. AMETEK Land
- 9.8. Testo SE & Co. KGaA
- 9.9. Thermomedics Inc.
- 9.10. Welch Allyn, Inc.
- 9.11. Extech Instruments
- 9.12. B. Braun Melsungen AG
- 9.13. Medline Industries, LP
- 9.14. Omega Engineering Inc.
- 9.15. Infrared Cameras Inc.
- 9.16. Geratherm Medical AG

## List Of Tables

### LIST OF TABLES

- Table 1. Global Infrared Thermometer Market, Report Scope
- Table 2. Global Infrared Thermometer Market Estimates & Forecasts By Region  
2024–2035
- Table 3. Global Infrared Thermometer Market Estimates & Forecasts By Segment  
2024–2035
- Table 4. Global Infrared Thermometer Market Estimates & Forecasts By Segment  
2024–2035
- Table 5. Global Infrared Thermometer Market Estimates & Forecasts By Segment  
2024–2035
- Table 6. Global Infrared Thermometer Market Estimates & Forecasts By Segment  
2024–2035
- Table 7. Global Infrared Thermometer Market Estimates & Forecasts By Segment  
2024–2035
- Table 8. U.S. Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 9. Canada Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 10. UK Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 11. Germany Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 12. France Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 13. Spain Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 14. Italy Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 15. Rest Of Europe Infrared Thermometer Market Estimates & Forecasts,  
2024–2035
- Table 16. China Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 17. India Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 18. Japan Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 19. Australia Infrared Thermometer Market Estimates & Forecasts, 2024–2035
- Table 20. South Korea Infrared Thermometer Market Estimates & Forecasts,  
2024–2035

.....

## List Of Figures

### LIST OF FIGURES

- Fig 1. Global Infrared Thermometer Market, Research Methodology
  - Fig 2. Global Infrared Thermometer Market, Market Estimation Techniques
  - Fig 3. Global Market Size Estimates & Forecast Methods
  - Fig 4. Global Infrared Thermometer Market, Key Trends 2025
  - Fig 5. Global Infrared Thermometer Market, Growth Prospects 2024–2035
  - Fig 6. Global Infrared Thermometer Market, Porter's Five Forces Model
  - Fig 7. Global Infrared Thermometer Market, Pestel Analysis
  - Fig 8. Global Infrared Thermometer Market, Value Chain Analysis
  - Fig 9. Infrared Thermometer Market By Application, 2025 & 2035
  - Fig 10. Infrared Thermometer Market By Segment, 2025 & 2035
  - Fig 11. Infrared Thermometer Market By Segment, 2025 & 2035
  - Fig 12. Infrared Thermometer Market By Segment, 2025 & 2035
  - Fig 13. Infrared Thermometer Market By Segment, 2025 & 2035
  - Fig 14. North America Infrared Thermometer Market, 2025 & 2035
  - Fig 15. Europe Infrared Thermometer Market, 2025 & 2035
  - Fig 16. Asia Pacific Infrared Thermometer Market, 2025 & 2035
  - Fig 17. Latin America Infrared Thermometer Market, 2025 & 2035
  - Fig 18. Middle East & Africa Infrared Thermometer Market, 2025 & 2035
  - Fig 19. Global Infrared Thermometer Market, Company Market Share Analysis (2025)
- .....

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