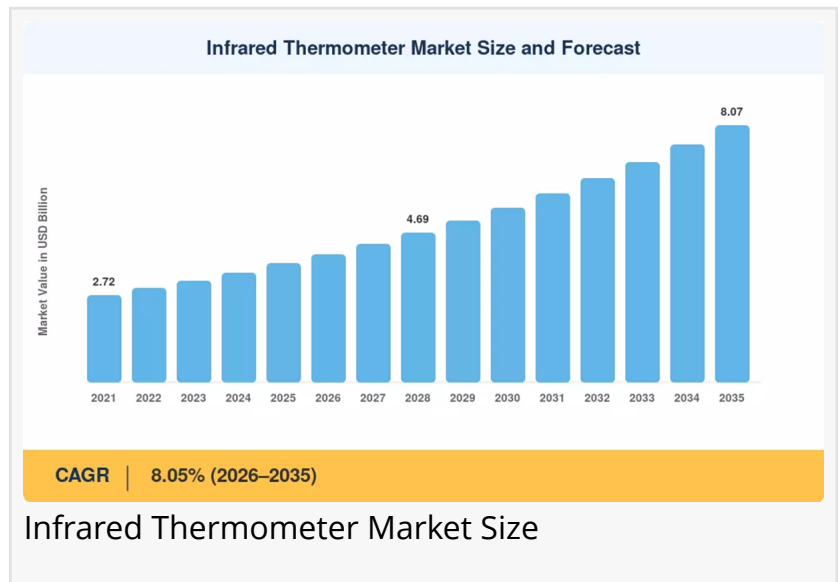


Infrared Thermometer Market to reach USD 8.07 Billion by 2035 at 8.05% CAGR

Infrared Thermometer Market to Surge from USD 4.02B in 2026 to USD 8.07B by 2035-By Post-Pandemic Health Screening Mandates, Telehealth Integration

NY, CA, UNITED STATES, July 14, 2026 /EINPresswire.com/ -- As per Market Research Future, the [global Infrared Thermometer Market size](#) to reach USD 8.07 Billion by 2035 from USD 4.02 Billion in 2026, at a CAGR of 8.05% during the forecast period 2026--2035. The market base was estimated at USD 3.72 Billion in 2025.



The 8.05% CAGR---anchored by structural health and industrial demand rather than discretionary consumer spending---is driven by three converging forces: post-pandemic health screening mandates that continue to anchor clinical and institutional procurement for non-contact temperature monitoring, industrial predictive maintenance programs funded under national manufacturing competitiveness initiatives that inject fresh capital into sensor-embedded thermal monitoring architectures, and telehealth platform integration that broadens the addressable opportunity beyond traditional clinical settings into remote patient triage workflows.

National governments and multilateral health organizations are amplifying this momentum. The WHO's 2024 International Health Regulations revision recommended IR-based triage at ports of entry, prompting governments to allocate procurement budgets exceeding USD 850 million cumulatively through 2026. The U.S. Department of Energy's Advanced Manufacturing Office allocated over USD 120 million between 2023 and 2025 for smart sensor integration programs, accelerating the transition toward connected, cloud-capable thermal monitoring across factory floors.

The U.S. Centers for Medicare & Medicaid Services expanded telehealth reimbursement codes in 2024 to cover remote temperature monitoring for chronic disease management, opening a new

recurring-revenue channel for device manufacturers. Together, these initiatives are creating the procurement infrastructure and delivery innovation on which the Infrared Thermometer Market depends.

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Key Market Trends & Growth Drivers

Post-Pandemic Health Screening Mandates and Clinical Procurement

Public health authorities across 60+ countries retained temperature screening protocols beyond the acute pandemic period. The WHO's 2024 International Health Regulations revision recommended IR-based triage at ports of entry, prompting governments to allocate procurement budgets exceeding USD 850 million cumulatively through 2026. Hospital systems are replacing aging probe-style thermometers with connected IR units that stream readings directly into electronic health records.

Non-contact devices captured roughly 77.5% of the Infrared Thermometer Market share in 2025, reflecting consumer and clinical preference for hygienic measurement methods. Clinical facilities, airports, and schools overwhelmingly prefer the point-and-read convenience of non-contact models, while improved sensor accuracy has narrowed the performance gap with contact probes.

Industrial Predictive Maintenance and Smart Manufacturing

Legacy mercury-in-glass and bimetallic probe instruments are giving way to sensor-embedded devices powered by AI-driven analytics across factory floors. Manufacturers in the automotive, aerospace, and heavy equipment sectors are embedding IR sensors into production-line monitoring architectures. A 2024 McKinsey study estimated that predictive maintenance reduces unplanned downtime by 35--45%, translating to USD 630 billion in global savings potential across heavy industries. The Infrared Thermometer Market benefits directly as thermal anomaly detection becomes a core pillar of Industry 4.0 deployments.

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Telehealth Integration and Remote Patient Monitoring

The U.S. Centers for Medicare & Medicaid Services expanded telehealth reimbursement codes in 2024 to cover remote temperature monitoring for chronic disease management, opening a new recurring-revenue channel for device manufacturers. Connected forehead IR units paired with

smartphone applications enable real-time data transmission to clinicians, turning a one-time device sale into a platform subscription opportunity.

Omron Healthcare expanded its connected health ecosystem in January 2025 by integrating IR thermometer readings into the Omron Connect mobile application, enabling automated temperature trend tracking for chronic disease patients. The transition from one-time hardware sales to subscription-based device management platforms will reshape competitive dynamics. Vendors offering cloud-connected IR devices with bundled analytics, calibration-as-a-service, and regulatory compliance dashboards can achieve customer lifetime values three to five times higher than traditional transactional models. Online distribution channels are advancing at 9.38% CAGR, with marketplace platforms and direct-to-consumer brand stores expanding selection and enabling price comparison, further accelerating the shift from transactional hardware to recurring platform revenue.

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Market Segment Insights

BY PRODUCT TYPE

Non-Contact Infrared Thermometers: Dominant segment with ~77.5% revenue share in 2025. Reflecting entrenched consumer and clinical preference for hygienic, point-and-read measurement methods. Non-contact devices gained widespread acceptance during mass health screening deployments, and improved sensor accuracy has narrowed the performance gap with contact probes. Hospital systems, airports, and schools overwhelmingly prefer non-contact models, while clinical facilities treat them as default first-line agents for triage protocols.

Contact Infrared Thermometers: Steady growth segment at 6.85% CAGR (2026--2035). Driven by precision industrial measurement demand. Contact IR thermometers retain a defensible position in precision industrial applications---metallurgy, glass manufacturing, and semiconductor processing---where surface emissivity calibration demands direct sensor positioning.

BY TEMPERATURE RANGE

50°C -- 500°C: Dominant range with ~66.9% share in 2025. This range spans both clinical body temperature measurement and the majority of food processing and light industrial applications, making it the workhorse segment of the Infrared Thermometer Market.

Above 500°C: Fastest-growing temperature range segment at 9.15% CAGR (2026--2035). Metallurgy and high-temperature manufacturing drive demand. Above-500°C instruments serve specialized metallurgical, glass, and ceramics industries where extreme thermal environments

demand ruggedized sensor assemblies and specialized optics.

Below -50°C: Growing segment at 6.50% CAGR (2026--2035). Cryogenic and cold chain applications create demand for ultra-low temperature IR monitoring.

BY DISTRIBUTION CHANNEL

Brick-and-Mortar (Pharmacies & Specialty): Dominant channel with ~62.3% revenue share in 2025. Immediate availability and professional advice anchor this segment. Physical retail channels retain a majority share in the Infrared Thermometer Market as pharmacies and medical supply outlets offer professional guidance and immediate product availability.

Online Vendors: Fastest-growing channel segment at 9.38% CAGR (2026--2035). E-commerce penetration and price transparency drive demand. Online channels are closing the gap rapidly, with marketplace platforms and direct-to-consumer brand stores expanding selection and enabling price comparison.

BY END-USER INDUSTRY

Healthcare and Medical: Dominant end-user with USD 2.39 Billion in 2025. Comprehensive clinical triage and remote monitoring requirements dominate volume. Healthcare remains the anchor vertical of the Infrared Thermometer Market, with hospital systems, clinics, and home users collectively driving the single largest demand pool.

Electronics and Semiconductor: Fastest-growing end-user segment at 8.65% CAGR (2026--2035). Wafer fabrication and PCB thermal QA drive demand. Chipmakers deploy IR monitoring across photolithography, etching, and packaging stages where temperature deviations of even 0.5°C can compromise yield.

Food and Beverage Processing: USD significant share with 7.90% CAGR (2026--2035). HACCP compliance enforcement anchors this segment. The EU Regulation 2023/988 on General Product Safety requires temperature verification to be documented at each cold chain handoff point, triggering a compliance-driven replacement cycle.

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Regional Outlook

North America -- Dominant Market (~34.2% Share, 2025)

The United States generates approximately 72.5% of North American Infrared Thermometer Market revenue, driven by stringent FDA device standards, widespread hospital adoption of

connected diagnostic devices, and aggressive procurement of non-contact thermometers across healthcare networks.

The Medicare telehealth reimbursement expansion in 2024 created a structural recurring-revenue tail for remote temperature monitoring, while hospital system upgrades and industrial predictive maintenance programs funded under national manufacturing competitiveness initiatives inject fresh capital into the sector. CMS reimbursement for connected diagnostic devices under outpatient prospective payment systems has driven adoption in academic medical centers, while community health networks increasingly prescribe IR-based remote monitoring to manage chronic disease patient loads.

Europe -- Second Largest (~27.0% Share, 2025)

Europe's Infrared Thermometer Market reflects divergent national strategies---Germany leads regionally with automotive and pharmaceutical manufacturing demand, contributing ~23.5% of regional share, while the UK's NHS Long Term Workforce Plan includes digital diagnostic procurement budgets that favor connected IR devices at 8.20% CAGR.

France contributes through food processing compliance requirements aligned with EU safety regulation updates at USD 0.13 Billion. Italy advances at 7.65% CAGR on agrifood sector thermal monitoring adoption. Spain contributes USD 0.07 Billion on healthcare infrastructure expansion.

Asia-Pacific -- Fastest-Growing Region (9.15% CAGR, 2026--2035)

Asia-Pacific is the engine of the Infrared Thermometer Market. China holds the largest regional share with ~35.8% of regional revenue, driven by electronics manufacturing clusters in Guangdong and Jiangsu that consume high volumes of industrial-grade IR devices for quality control, while government-mandated health screening at transportation hubs sustains clinical device demand.

India is growing at 10.25% CAGR on the back of Ayushman Bharat Digital Mission device procurement---standardizing diagnostic equipment in 150,000 health and wellness clinics by 2028, generating a procurement pipeline of over USD 200 million for IR devices alone. Japan contributes USD 0.11 Billion through precision industrial and elder care applications. South Korea is growing at 9.10% CAGR on semiconductor fab expansion.

Middle East & Africa -- Emerging Opportunity (7.85% CAGR, 2026--2035)

The Middle East & Africa is bifurcated between well-funded Gulf states and resource-constrained Sub-Saharan nations. Saudi Arabia leads the region with Vision 2030 healthcare investment, contributing ~28.5% of regional share---the Kingdom has allocated over USD 65 billion for hospital construction and medical device procurement through 2030, positioning it as the

region's primary growth engine. The UAE is growing at 8.30% CAGR on smart city and hospital modernization initiatives in Abu Dhabi and Dubai, featuring integrated IR-based patient flow monitoring systems. South Africa contributes USD 0.04 Billion on mining and clinical applications.

Competitive Landscape and Recent Developments

The Infrared Thermometer Market exhibits medium concentration, with the top five players collectively holding an estimated 38--45% revenue share. The Herfindahl-Hirschman Index sits in the 800--1,200 range, indicating a moderately fragmented landscape where both global instrumentation conglomerates and specialized medical device firms compete across overlapping segments.

Patent expirations and commoditization of basic sensor modules are gradually fragmenting low-end segments, though innovation in AI-embedded analytics, connected platform ecosystems, and specialized industrial optics sustains competitive moats for first-movers. The competitive landscape is stratified between broad-spectrum thermal imaging leaders serving global industrial markets, clinical healthcare specialists capturing hospital procurement cycles, and value-oriented distributors consolidating the consumer segment.

KEY COMPANIES AND RECENT MILESTONES

Teledyne FLIR (October 2024): Announced Q3 revenue of USD 1.44 billion, boosted by demand for infrared detectors. Broad-spectrum thermal imaging leader serving industrial and defense IR sensor markets, commanding ~8--11% of global Infrared Thermometer Market revenue. Premium positioning in high-performance industrial and defense segments offsets commoditization pressure in consumer markets.

Fluke Corporation (2024--2025): Maintains leadership in premium industrial instrumentation with pistol-grip and process thermometers, holding ~7--10% of global revenue. First-mover in ruggedized industrial IR measurement with global predictive maintenance leadership. Premium instrumentation positioning in manufacturing segments offsets price compression in basic handheld units.

Omron Healthcare (January 2025): Expanded its connected health ecosystem by integrating IR thermometer readings into the Omron Connect mobile application, enabling automated temperature trend tracking for chronic disease patients. Consumer and clinical healthcare focus anchors a strong global franchise, holding ~6--9% of global revenue. The convergence of connected diagnostics with therapeutic monitoring creates a diagnostic-therapeutic revenue loop.

Braun (Procter & Gamble) (2024--2025): ThermoScan ear and forehead devices reinforce consumer brand recognition leadership, holding ~5--8% of global revenue. The company benefits

from the structural consumer health segment created by expanded home diagnostic adoption and pediatric-friendly design innovations.

Exergen Corporation (2024--2025): Temporal artery clinical thermometers reinforce hospital-grade accuracy specialization, holding ~4--7% of global revenue. Superior accuracy data versus competing non-contact models maintains strong formulary positioning in acute care settings.

Microlife Corporation (2024--2025): Clinical and home-use IR thermometers reinforce value-oriented global distribution positioning, holding ~3--6% of global revenue. Leveraging scale for device access across cost-sensitive emerging markets.

Future Outlook: 2026--2035

By 2030, AI-embedded smart thermometry platforms will become the operating system of temperature monitoring management. The convergence of edge computing, machine learning, and compact IR sensors will reshape the Infrared Thermometer Market through the late 2020s. By 2030, an estimated 40% of automotive production lines in OECD countries will deploy autonomous thermal inspection stations capable of detecting defects at line speed, fundamentally altering the market from a handheld-device business to a systems-integration opportunity. Machine-learning models that integrate thermal, ambient, and usage biomarkers can recommend optimal calibration schedules and anomaly thresholds for individual devices. Start-ups have raised significant venture funding for IoT decision-support tools since 2023.

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