

Thermal Scanners Market to Reach USD 8.25 Billion at a CAGR of 6.5% by 2032 | S&S Insider

Growth is driven by increased demand for non-contact temperature monitoring in healthcare & expansion of thermal imaging technologies in industrial applications

AUSTIN, TX, UNITED STATES, November 11, 2024 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the S&S Insider, "The [Thermal Scanners Market](#) was valued at USD 4.69 Billion in 2023 and is expected to reach USD 8.25 Billion by 2032, growing at a CAGR of 6.5% over the forecast period 2024-2032."



Thermal scanners represent a discreet, efficient, and effective solution for detecting individuals potentially carrying viruses. This technology has been integrated into various facilities, including transportation hubs, factories, businesses, and government offices, as part of Environmental Health & Safety (EH&S) and Early Business Threat (EBT) detection methods. With the easing of lockdown restrictions, many industries are adopting thermal cameras to screen employees. Notably, companies like General Motors and Wynn Resorts have publicly acknowledged their use of thermal scanners for this purpose. Other firms, including Tyson Foods and Intel Corp, are exploring these solutions for future applications beyond the pandemic. This growing demand extends to security and surveillance within the commercial and healthcare sectors.

Furthermore, significant investments in clean technology manufacturing in the semiconductor industry are notable, with funding levels approximately double those of 2021 and nearly twenty-fold higher than in 2019. Since the enactment of the Inflation Reduction Act (IRA), nearly 200 new clean technology manufacturing facilities have been announced, amounting to USD 88 Billion in anticipated investments and the potential creation of over 75,000 jobs. Construction spending in manufacturing rose significantly following these legislative changes, with an annual total of USD 201 Billion reported in July 2023 reflecting a 70% year-over-year increase setting the stage for substantial industry growth in 2024.

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SWOT Analysis of Key Players as follows:

- FLIR Systems Inc.
- Fluke Corporation
- Testo SE & Co. KGaA
- Seek Thermal Inc.
- L3Harris Technologies Inc.
- Axis Communications AB
- Honeywell International Inc.
- Leonardo S.p.A.
- Thermoteknix Systems Ltd.
- InfraTec GmbH Infrarotsensorik und Messtechnik
- Opgal Optronic Industries Ltd.
- Raytheon Technologies Corporation
- Drägerwerk AG & Co. KGaA
- Bullard
- Thales Group
- Optotherm Inc.
- NEC Corporation
- Dali Technology
- Bosch Security Systems Inc.
- Rapiscan Systems

Segment Analysis

By Wavelength Type:

The Long-Wave Infrared (LWIR) segment led the thermal scanners market in 2023 with a 37% market share, accounting for the largest share in 2023. LWIR thermal cameras function within the 8 to 14 micrometers wavelength range, which makes them well-suited for detecting changes in temperature and recognizing heat distribution. This feature is crucial for a range of uses, such as industrial examinations, structural evaluations, and health assessments. The sensitivity and precision of LWIR technology are crucial in vital scenarios, like tracking body temperatures to detect potential health risks early, especially in settings such as airports, hospitals, and public events.

By Type:

The fixed thermal scanners dominated the market in 2023 by 64% market share, due to their robust performance and reliable monitoring capabilities. These scanners, positioned

strategically, constantly monitor and measure temperature, proving ideal for busy locations like airports, stadiums, and malls. Stable thermal cameras provide a thorough and uniform method of surveillance, enabling quick detection of people with high temperatures. This technology is being more widely used in both public and private sectors, especially in healthcare settings where quick temperature screening is important. Key companies, including Honeywell and Bosch, are extending their range of fixed thermal scanners to meet the increasing demand, strengthening their position as market leaders

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KEY MARKET SEGMENTS:

BY VERTICAL TYPE

- Industrial
- Commercial
- Aerospace & Defense
- Automotive
- Healthcare & Life Sciences
- Oil & Gas
- Other Verticals

BY WAVELENGTH TYPE

- Short-Wave Infrared (SWIR)
- Mid-Wave Infrared (MWIR)
- Long-Wave Infrared (LWIR)

BY APPLICATION TYPE

- Thermography
- Security & Surveillance
- Search & Rescue
- Other Applications

BY TYPE

- Fixed
- Portable

BY TECHNOLOGY TYPE

- Cooled
- Uncooled

Regional Analysis

In 2023, North America dominated the market with a 39% market share, driven by significant

investments in healthcare and security technologies. Major technology companies and innovative start-ups create a competitive environment that spurs rapid advancements in thermal scanning solutions. FLIR Systems and Raytheon Technologies are prominent competitors in this industry, consistently developing innovative thermal imaging solutions designed for different uses.

The Asia-Pacific region is projected to be the fastest-growing during 2024-2032, fueled by rapid industrialization, increasing population density, and growing health and safety concerns. Nations such as China, India, and Japan are experiencing a rise in the use of thermal scanners in different industries such as healthcare, manufacturing, and transportation. The area's emphasis on improving safety measures for public health, particularly in the wake of the COVID-19 outbreak, has resulted in the widespread acceptance of thermal scanning solutions.

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Recent Developments

June 2024 - AMETEK Land has launched the Pneumatic Auto-Retraction System (LPAR) to improve the safety of thermal imagers by avoiding overheating or damage in case of power loss or cooling failures.

June 2024 - Lynred introduces ATI640, a user-friendly VGA LWIR thermal imaging module designed for beginners in the infrared market.

June 2024 - Seek Thermal Inc., a well-known company in the thermal imaging technology industry on a global scale, is excited to introduce the Seek Nano, the newest advancement in thermal imaging technology for smartphones.

Future Trends

The Thermal Scanners Market is ready for substantial expansion, fueled by various important trends. The growing incorporation of artificial intelligence (AI) and machine learning into thermal imaging systems will improve their precision and effectiveness, enabling instant data analysis and better decision-making procedures. Moreover, the increasing focus on safety and health measures in public areas will further drive the need for thermal scanners in different sectors. Additionally, improvements in mobile thermal scanning technology will result in increased portability, simplifying the process for organizations to perform screenings in various settings. The increasing use of automation and smart technologies in buildings will continue to drive the use of thermal scanners for energy management and security purposes. With public health and safety becoming a top priority for businesses and governments, the thermal scanners market is forecasted to prosper in the future.

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