

Thermal Scanners Market Size, Share & Trends Analysis Report By Type (Handheld, Fixed), By Wavelength (Short-Wave, Mid-Wave, Long-Wave), By Industry Vertical, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Thermal Scanners Market Growth & Trends

The global thermal scanners market size is estimated to reach USD 9.23 billion by 2030, expanding at a CAGR of 8.3% from 2025 to 2030, according to a new report by Grand View Research, Inc. The demand for non-destructive material testing with enhanced safety standards in various industries is expected to propel the growth. The growing need for low-cost devices in the commercial and healthcare sector is expected to further augment the product demand.

The Short Wavelength Infrared (SWIR) thermal scanner is presumed to witness strong growth over the next few years. SWIR provides the ability to see through the glass, day-to-night imaging, offers high sensitivity and greater resolution. Moreover, the increased penetration of SWIR-based thermal imaging for surveillance and security applications in military and other emergency services is bolstering the market growth. As a result, key players are developing technically advanced and low-priced SWIR cameras to capture the lucrative opportunity.

The modern automotive industry implemented the use of various combinations of materials owing to the future-oriented lightweight manufacturing of the vehicles. As a result, the industry demands innovative and alternative approaches to contemporary

testing. Thermal scanners can provide precise and efficient testing and quality control in the automotive industry by detecting the defects and streamline repairs without damaging the parts. Moreover, thermal imaging can complement ADAS in the automotive industry. However, the industry is facing some major challenges amid the COVID-19 crisis. The supply chain disruptions on account of border closure, interruptions in manufacturing facilities across Europe, and closure of assembly plants in U.S. has impacted the automotive industry growth. Thus, the demand for thermal scanner in the automotive industry is likely witness sluggish growth in 2020.

The Europe thermal scanner market is expected exhibit steady growth over the forecast period. The region has witnessed widespread adoption of thermal scanners in healthcare and commercial applications for fever detection and multiple diagnoses of the illness. Countries such as Spain, Italy, U.K., and Germany have witnessed remarkable impact of COVID-19, which has resulted in increased deployment of thermal scanners at public places such as airports, metro stations, and hospitals. After the pandemic, the use of thermal scanners and temperature checks at these public places, especially at airports, is expected to be continued, which will result in steady market growth. The CEO of Heathrow Airport, U.K., predicted that going forward, the airports shall implement the passenger temperature checking along with the security checks as a common practice.

Thermal Scanners Market Highlights

The handheld thermal scanner is expected to expand at the highest CAGR between 2025 and 2030, owing to the benefits offered in terms of a low-cost and flexible solution

The demand in healthcare sector is expected to see an upward trend due to the recent pandemic situation

The Longwave Infrared (LWIR) thermal scanning products are expected to find their primary usage in the security and surveillance application

Asia Pacific is expected to expand at the highest CAGR over the forecast period, with China and India playing a crucial role in the development of the regional market

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