

# **SWIR Thermal Imaging Market Size and Forecast (2021 - 2034), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type (Modules, Cameras, and Scopes), Type (Handheld and Standstill), Technology (Cooled and Uncooled), and End Use Industry (Automotive, Consumer, Industrial, Medical, Defense and Aerospace, and Others)**

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## **Abstracts**

The SWIR thermal imaging market size was valued at US\$ 765.57 million in 2025 and is projected to reach US\$ 1435.28 million by 2034; it is expected to grow at a CAGR of 10.0% during 2026–2034.

The factor of enhanced imaging capabilities in complex environments is a major driver for the growth of the Short-Wave Infrared (SWIR) thermal imaging market. Unlike conventional visible or near-infrared imaging systems, SWIR sensors can penetrate atmospheric obscurants such as haze, smoke, fog, and dust, providing reliable imaging in conditions that would otherwise degrade or obscure visual clarity. This capability is particularly valuable in applications such as surveillance, security, defense, and industrial inspection, where operational environments are often unpredictable and visually challenging. In low-light scenarios, where traditional cameras struggle, SWIR imaging can detect and identify objects with high resolution, enabling situational awareness even during nighttime or adverse weather conditions. Furthermore, SWIR technology can capture details that are invisible to standard thermal or visible light cameras, such as subtle differences in material composition, water content, or surface features, allowing for enhanced target recognition, quality inspection, and hazard

detection. Industries such as aerospace, automotive, and robotics benefit significantly, as SWIR cameras facilitate navigation, obstacle detection, and machine vision in environments with smoke, fog, or glare. In defense and security sectors, the ability to see through camouflage or concealment provides a tactical advantage that traditional imaging systems cannot offer. Additionally, the rise of autonomous vehicles and smart city surveillance solutions has amplified the demand for sensors that maintain accuracy and reliability under challenging environmental conditions. As SWIR imaging continues to evolve with higher sensitivity, faster frame rates, and compact form factors, its ability to operate effectively in complex and low-visibility scenarios solidifies its position as a preferred technology, driving widespread adoption and fueling market growth.

The handheld segment is expected to grow at a significant pace during the forecast period. Handheld SWIR thermal imaging devices are portable instruments designed for on-the-go temperature and spectral analysis. These compact systems enable users to capture high-resolution thermal images in environments with variable conditions, such as industrial inspections, surveillance, or maintenance tasks. The benefits include real-time imaging, mobility, and ease of use in tight or remote locations. Handheld SWIR devices are especially useful in detecting material defects, moisture content, and gas leaks. The growing demand is driven by industrial safety regulations, increasing field inspections, and the need for rapid diagnostics in sectors like aerospace, energy, and defense, fueling market growth.

Testo SE & Co. KGaA, Fluke Corp, UNI-TREND TECHNOLOGY (CHINA) CO., LTD., Hangzhou Microimage Software Co., Ltd., Megger Group Limited, SDT International SA/NV, Leonardo S.p.A., L3Harris Technologies Inc, Safran SA, and Teledyne Technologies Inc are among the key SWIR thermal imaging market players that are profiled in this market study.

The overall SWIR thermal imaging market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the SWIR thermal imaging market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the SWIR thermal imaging market.

## Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global SWIR Thermal Imaging market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global SWIR Thermal Imaging market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global SWIR Thermal Imaging market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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