

Thermal Imaging Camera Market Trends: Emerging Applications and Market Forecasts to 2030

Thermal Imaging Camera Market Expected to Reach \$7.49 Billion by 2030

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EINPresswire.com/ -- Allied Market Research, titled, "[Thermal Imaging Camera Market](#) Type, Application, Industry Vertical, and Sales Channel: Global Opportunity Analysis and Industry Forecast, 2021-2030," The

global thermal imaging camera industry size was valued at \$3.16 billion in 2020, and is projected to reach \$7.49 billion by 2030, registering a CAGR of 10.0% from 2021 to 2030.



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Thermal Camera Sales Surge: FLIR Systems Reports 700% Demand Increase”
Allied Market Research

A thermal imaging camera works by detecting and measuring the infrared radiation emanating from the objects, which is then converted into electrical signals that further form an image. This image created is interpreted to find the hot spots. These hot spots indicate high-temperature zones that may fail the machine or object.

Thermal imaging cameras work flawlessly in both daytime and nighttime. These cameras have a wide range of applications, including drones, wildlife, fire detection, marine, surveillance, and industrial.

Increase in the use of thermal imaging cameras for security & surveillance, the benefit of cost-effective preventive maintenance using thermal cameras, the substantial rate of adoption of thermal cameras in the manufacturing sector to ensure quality, and the rise in investments for

the deployment of thermal imaging cameras by the government of different countries are some of the factors that drive the thermal imaging camera market growth. However, high capital and maintenance costs are acting as restraints and hamper early adoption in developing countries. Furthermore, thermal imaging cameras are gaining high traction in the commercial sector, which is expected to provide lucrative opportunities for the global thermal imaging camera industry during the forecast period.

The camera segment dominated the [thermal imaging camera market share](#) in 2020, owing surge in demand for thermal cameras with the outbreak of the COVID-19 pandemic. The uncooled segment garnered significant market share in 2020, owing to its lower cost and wide range of product offerings. Security & surveillance had a prominent market share in 2020, due to greater demand for high-end security devices across various sectors. The aerospace & defense segment was the highest contributor to the market in 2020. The industrial and commercial sectors collectively accounted for around 40.0% thermal imaging camera market share in 2020, owing to the surge in cloud-based solutions that fuel the growth of the smart camera segment. By sales channel, the direct segment dominated the market, as customers directly placed their orders for thermal cameras according to their requirements, thereby allowing customization of the customers.

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The Thermal Imaging Camera industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

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- SATIR
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- Synectics plc
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The sudden outbreak of the COVID-19 pandemic has forced industries to adopt advanced safety

and health protection measures. Thermal imaging has been a preferred potent, cost-effective measure to safeguard workplace safety and inhibit further spreading of the virus. Thermal imaging cameras have now become an indispensable part of a surveillance equipment system for any business. Consequently, the emergence of the COVID-19 pandemic has fueled the thermal imaging camera market growth during the forecast period.

Region-wise, North America is a key contributor to the global [thermal imaging camera market revenue](#). This is attributed to amplified spending on armed forces in the U.S. This increased spending is aimed at equipping the armed forces with advanced military gear, including these cameras, to conduct surveillance and security operations efficiently. Moreover, the region has major players offering advanced solutions.

This is attributed to the region's extensive adoption of advanced technology, which is expected to propel market growth.

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- In 2020, the uncooled segment accounted for the maximum revenue and is projected to grow at a notable CAGR of 8.1% during the forecast period.
- Industrial aerospace and defense combined accounted for around 50.0% of the global thermal imaging camera market share in 2020.
- The monitoring & inspection of the global market is projected to grow at a CAGR of 9.9% during the forecast period.
- Asia-Pacific contributed a major share of the global thermal imaging camera market, accounting for more than 45.0% share in 2020.

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