

Europe Thermal Imaging Systems Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 110 pages | Mordor Intelligence

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Report description:

Europe's Thermal Imaging Systems market is expected to grow at a CAGR of 12.34% from 2022-to 2027. The market is expected to have a steady growth due to the increased thermal camera usage across various industries, including Aerospace and Defence, Automotive, Healthcare and Life Sciences, Oil and Gas, Food and Beverages, and others.

Key Highlights

Europe is one of the most technologically advanced regions in the world. France, the United Kingdom, and Italy are among the region's major military spenders. Many of the nations in this region were members of the NATO forces who fought in Afghanistan and Iraq. Thermal imaging and other technological breakthroughs were widely employed and are still used in challenging terrains like Afghanistan.

Due to technological improvements, companies have also downsized IR and thermal imaging sensors, making them very efficient and thereby enhancing their simplicity of use. Handheld infrared and thermal imaging systems are gaining popularity due to their mobility. They are finding uses in various industries, including hospitals, where they may save maintenance times and heating costs.

Increased demand for IR cameras is driven by reasons such as expanding need for surveillance across many verticals, constantly reducing thermal camera costs and fast development of high-speed infrared cameras. Inaccurate measurements and picture color difficulties linked with the cameras, on the other hand, are posing a challenge to industry expansion. Military and defense, as well as automobiles, are two businesses that significantly rely on IR cameras.

COVID-19's breakout and spread have caused a halt in Europe's economic development. It has harmed several sectors, including thermal imaging. Companies are preparing and trying to keep their operations running. The primary obstacles that businesses encounter are product manufacturing and distribution. To restrict the spread of the epidemic, some nations worldwide have implemented or extended lockdowns, causing interruptions in the thermal imaging market's supply chain.

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Europe Thermal Imaging Systems Market Trends

Military and defense sector is expected to drive the market

The military and defense industries were among the first to use infrared and thermal imaging devices. With the defense sector's increased investment in surveillance, the use of infrared and thermal imaging equipment is projected to grow in the future. Governments all across Europe are investing in next-generation technology by giving better and more accurate information to military troops. As the use of IR thermography equipment in the military industry has grown, this has had an influence on the rise of infrared cameras, particularly short-wavelength IR cameras.

There is a significant trend of increasing crime and violence in the region. As a result of this element, the budgets of the homeland security forces have increased in order to purchase advanced protection systems and devices. With an expanding number of non-lethal and deadly weapons, modern combat has grown increasingly asymmetric.

Thermal imaging is also being more widely used in the Vehicles

The automobile industry is now gaining traction with high-tech autonomous cars, also known as Advanced Driver-Assistance Systems (ADAS) or driverless vehicles. Multiple sensors, including thermal cameras, Radio Detection and Ranging (RADAR), Light Detection and Ranging (LIDAR) sensor, and proximity sensor, substitute drivers in these cars to enable automated driving, navigation, and better situational awareness. To increase night vision and identify people or animals in foggy, crowded areas and foggy situations, thermal imaging cameras are integrated into driverless cars, which instantly stop the vehicle to avoid any casualties.

Thermal imaging cameras are used in the automobile industry to allow drivers to see in harsh lighting and weather situations to avoid accidents and assure safety. Automotive manufacturers and thermal imaging solution suppliers are working together to develop innovative thermal solutions for the automotive industry.

Moreover, thermal imaging technology is also utilized for non-destructive inspection of automotive parts and micro-components to assure vehicle safety while saving time and money. ImageIR 9400 hp, ImageIR 10300, and VarioCAM HD examine 900 thermal imaging cameras, for example, are specifically built for automotive applications by InfraTec GmbH (Germany).

Europe Thermal Imaging Systems Market Competitor Analysis

Europe's Thermal Imaging Systems market is partially fragmented and consists of several major players. Some of the major players like Flir, Bae Systems, Elbit Systems Ltd., Raytheon Co., L-3 Communications are already present in the thermal imaging systems market. However, with innovative solutions, many of the companies are increasing their market presence by securing new contracts and by tapping new markets.

November 2021: Teledyne FLIR Launches Online Developer Support Tools for Lepton Thermal Camera Module Integration. Working with developers, Teledyne FLIR has created a new set of extensive online support tools to enable the next generation of designers, developers, and engineers to create new devices and applications using the Lepton.

September 2021: The Air Force Armament Directorate has awarded Princeton Infrared Technologies a \$1 million contract to develop an uncooled SWIR camera that will be integrated with BAE Systems' Open Seeker architecture for advanced precision

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targeting.

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

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