

Europe Thermal Imaging Systems - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Europe Thermal Imaging Systems Market is expected to register a CAGR of 12.34% during the forecast period.

Key Highlights

- Europe is one of the most technologically advanced regions in the world. Its major military spenders are France, the United Kingdom, and Italy.
- Many nations in this region were members of the NATO forces that 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 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 the expanding need for surveillance across many verticals, constantly declining thermal camera costs, and the rapid development of high-speed infrared cameras.
- Inaccurate measurements and picture color difficulties linked with the cameras are posing a challenge to industry expansion. Military and defense and automobiles are two businesses that significantly rely on IR cameras.

Europe Thermal Imaging Systems Market Trends

Military and Defense Sector is Expected to Drive the Market

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- 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.
- Governments all across Europe are investing in next-generation technology by giving better and more accurate information to military troops. The use of IR thermography equipment in the military industry has grown, influencing the rise of infrared cameras, particularly short-wavelength IR cameras.
- The region has a significant trend of increasing crime and violence. As a result, the homeland security forces' budgets have increased to purchase advanced protection systems and devices. With an expanding number of non-lethal and deadly weapons, modern combat has grown increasingly asymmetric.
- Global armies are modernizing their military arsenal and getting soldiers equipped with the latest combat and surveillance technology to cope with diversely asymmetric, multi-dimensional, and highly lethal battlefield imperatives. Motion detection is one of the essential element of Automatic Target Recognition (ATR) and perimeter monitoring systems. Thermal imaging has become an integral part of these systems because of its ability to operate in all weather conditions.
- The primary application of handheld thermal imaging is increasing in the defense and security sector. The US Army is aiming to provide thousands of new goggles to its soldiers engaged in combat missions. According to the Defense Visual Information Distribution Service (DVIDS), the new goggles will help enhance infantry troops' situational awareness.

Thermal Imaging is Being More Widely Used in Vehicles

- Vehicle manufacturers have discovered the benefits of thermal imaging for enhancing driver vision. The automotive night-vision systems enable drivers to detect and monitor potential hazards on or near the road, allowing more time to react to danger.
- With ADAS being the most significant factor of autonomous cars, microbolometer IR cameras for night vision systems in automobiles are expected to be increasingly incorporated. Camera manufacturers have begun introducing new models that feature the seamless integration of a second visible light camera.
- 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) sensors, and proximity sensors, substitute drivers in these cars, providing automated driving, navigation, and better situational awareness.
- Further, thermal imaging cameras are integrated into driverless cars to increase night vision and identify people or animals in foggy, crowded areas, and foggy situations, instantly stopping the vehicle from avoiding 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.
- 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 Industry Overview

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

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- December 2022 - Teledyne FLIR collaborated with RealWear to launch thermal imaging to wearable design equipment using a voice-controlled, fully hands-free thermal camera module for the first time.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Value Chain/Supply Chain Analysis
- 4.3 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.3.1 Threat of New Entrants
 - 4.3.2 Bargaining Power of Buyers
 - 4.3.3 Bargaining Power of Suppliers
 - 4.3.4 Threat of Substitute Products
 - 4.3.5 Intensity of Competitive Rivalry
- 4.4 Assessment of COVID-19 Impact on the Industry

5 MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Thermal Imaging is Becoming Increasingly Used in a Variety of Applications
 - 5.1.2 Technological Upgradation in Thermal Imaging Systems
- 5.2 Market Challenges
 - 5.2.1 Lack of Regular Support and Services

6 MARKET SEGMENTATION

- 6.1 By Solutions
 - 6.1.1 Hardware
 - 6.1.2 Software
 - 6.1.3 Services
- 6.2 By Product Type
 - 6.2.1 Fixed Thermal Cameras
 - 6.2.2 Handheld Thermal Cameras
- 6.3 By Application
 - 6.3.1 Security and Surveillance
 - 6.3.2 Monitoring and Inspection

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6.3.3 Detection and Measurement

6.4 By End User

6.4.1 Aerospace and Defense

6.4.2 Automotive

6.4.3 Healthcare and Life Sciences

6.4.4 Oil and Gas

6.4.5 Food and Beverages

6.4.6 Other End Users

6.5 By Country

6.5.1 United Kingdom

6.5.2 Germany

6.5.3 France

6.5.4 Rest of Europe

7 COMPETITIVE LANDSCAPE

7.1 Company Profiles

7.1.1 Flir Systems Inc.

7.1.2 L-3 Communications Holdings

7.1.3 Lockheed Martin

7.1.4 BAE Systems PLC

7.1.5 DRS Technologies Inc.

7.1.6 Elbit Systems Ltd

7.1.7 Raytheon Co.

7.1.8 Sofradir Group

7.1.9 Thermoteknix Systems Ltd

8 INVESTMENT ANALYSIS

9 FUTURE OF THE MARKET

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