

## **North America 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:**

The North America Thermal Imaging Systems market is expected to grow at a CAGR of 13.78% 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

The United States is involved in various activities across the world, including peacekeeping missions and assisting foreign governments. As the United States becomes involved in various minor engagements and skirmishes across the world, appropriate technology to defend the troops becomes increasingly critical. The United States and Canadian soldiers have fought in the dark and under challenging conditions, when even small advances in technology may make a significant difference. Thermal imaging technology has aided armies in combating the enemy and terrorists in the dark, allowing them to neutralize the danger.

Thermal imaging is an example of a technology that began in military applications and is now employed in various industries. With uses spanning from military to personal portable cameras and cellphones, thermal imaging transforms the world. Though it has a wide range of applications, some connected to saving lives have proven to be game-changers. These devices have grown more compact, user-friendly, and capable of producing high-resolution pictures.

Increased demand for IR cameras is driven by factors such as the growing need for surveillance across a wide range of industries, the continual reduction of thermal camera costs, and the rapid development of high-speed infrared cameras. Inaccurate measurements and picture color problems associated with cameras, on the other hand, are posing a threat to the industry's growth. The military and defense industries, as well as vehicles, rely heavily on infrared cameras.

COVID-19's breakout and spread have caused a halt in the region'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

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have implemented or extended lockdowns, causing interruptions in the thermal imaging market's supply chain.

## North America 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 the region 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. The US spends more money on its military than any other country. Along with Social Security and Medicare, the country's USD 778 billion military budget is one of the most expensive federal programs, according to the SIPRI Military Expenditure.

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.

## North America Thermal Imaging Systems Market Competitor Analysis

The North America 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.

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May 2021: Xenics has launched the Dione S 640, a new SWaP high-performance uncooled long-wave infrared (LWIR) camera. With this new product, the Dione family expands to include extremely demanding applications in the safety and security industries, as well as industrial applications.

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 Restraints
  - 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

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- 6.3.2 Monitoring and Inspection
- 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 Others
- 6.5 By Country
  - 6.5.1 United States
  - 6.5.2 Canada

## 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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