

Infrared Imaging Market Report by Technology (Cooled Infrared Imaging, Uncooled Infrared Imaging), Component (IR Detectors, IR Lens Systems, IR Sensors, and Others), Wavelength (Near Infrared (NIR), Shortwave Infrared (SWIR), Mid-Wave Infrared (MWIR), Long-Wave Infrared (LWIR), and Others), Application (Security and Surveillance, Monitoring and Inspection, Detection), Vertical (Industrial, Non-Industrial), and Region 2024-2032

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Abstracts

The global infrared imaging market size reached US\$ 6.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 11.9 Billion by 2032, exhibiting a growth rate (CAGR) of 6% during 2024-2032. The growing demand for security and surveillance, increasing prevalence of various health disorders, and rising adoption in the military and defense sector represent some of the key factors driving the market.

Infrared (IR) imaging refers to a technology designed to measure the temperature of an object by capturing infrared lighting and converting it into visible light. It comprises various components, such as detectors, lens systems, and sensors. It is highly suitable for identifying temperature fluctuations in various kinds of equipment. It assists in identifying night vision, navigation, flight control, and early warning systems. It aids in allowing technicians to recognize problems in sanitation systems and piping and check the location of mold in buildings. Besides this, it is beneficial in preventing the early diagnosis of numerous disorders among individuals. As a result, infrared imaging is widely employed in the automotive, aerospace, healthcare, electronics, semiconductor, oil and gas, and military and defense industries across the globe.

Infrared Imaging Market Trends:

Presently, the rising demand for IR imaging solutions for security and surveillance applications, as they have an ability to easily operate in harsh environments, such as smoke, water vapor, fog, and haze, represent one of the key factors supporting the growth of the market. Apart from this, the growing adoption of IR imaging to analyze biological samples with minimal sample preparation and without the utilization of contrast enhancement agents is positively influencing the market. Additionally, the rising prevalence of various gastrointestinal, neurological, cardiovascular, and cancer diseases among individuals across the globe is offering lucrative growth opportunities to industry investors. Besides this, the increasing integration of artificial intelligence (AI), machine learning (ML), and the internet of things (IoT) in IR imaging is propelling the growth of the market. In addition, the rising utilization of IR imaging in the military and defense industry to identify human or object movement monitoring and chemical, biological, radiological, and nuclear defense detection is bolstering the growth of the market. Moreover, the growing demand for IR imaging due to the increasing consumer preference for minimally invasive surgical procedures to diagnose numerous diseases is offering a favorable market outlook. In line with this, the rising utilization of IR imaging in airports to detect swine flu, acute respiratory syndrome, and ebola virus diseases (EVD) among passengers is impelling the growth of the market. Furthermore, the increasing demand for mounted IR imaging devices in hospitals and diagnostic centers across the globe is contributing to the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global infrared imaging market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on technology, component, wavelength, application and vertical.

Technology Insights:

Cooled Infrared Imaging

Uncooled Infrared Imaging

The report has provided a detailed breakup and analysis of the infrared imaging market based on the technology. This includes cooled infrared imaging and uncooled infrared imaging. According to the report, uncooled infrared imaging represented the largest segment.

Component Insights:

- IR Detectors
- IR Lens Systems
- IR Sensors
- Others

A detailed breakup and analysis of the infrared imaging market based on the component has also been provided in the report. This includes IR detectors, IR lens systems, IR sensors, and others.

Wavelength Insights:

- Near Infrared (NIR)
- Shortwave Infrared (SWIR)
- Mid-Wave Infrared (MWIR)
- Long-Wave Infrared (LWIR)
- Others

A detailed breakup and analysis of the infrared imaging market based on the wavelength has also been provided in the report. This includes near infrared (NIR), shortwave infrared (SWIR), mid-wave infrared (MWIR), long-wave infrared (LWIR), and others. According to the report, shortwave infrared (SWIR) accounted for the largest market share.

Application Insights:

- Security and Surveillance
- Monitoring and Inspection
- Condition Monitoring
- Structural Health Monitoring
- Quality Control
- Detection
- Gas Detection
- Fire/Flare Detection
- Body Temperature Measurement

A detailed breakup and analysis of the infrared imaging market based on the application has also been provided in the report. This includes security and surveillance, monitoring

and inspection (condition monitoring, structural health monitoring, and quality control), and detection (gas detection, fire/flare detection, and body temperature measurement). According to the report, security and surveillance accounted for the largest market share.

Vertical Insights:

- Industrial
- Automotive
- Aerospace
- Electronics & Semiconductor
- Oil & Gas
- Military and Defense
- Others
- Non-Industrial

A detailed breakup and analysis of the infrared imaging market based on the vertical has also been provided in the report. This includes industrial (automotive, aerospace, electronics and semiconductor, oil and gas, military and defense, and others) and non-industrial. According to the report, non-industrial accounted for the largest market share.

Regional Insights:

- North America
 - United States
 - Canada
- Asia Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy

Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America (the United States and Canada) was the largest market for infrared imaging. Some of the factors driving the North America infrared imaging market included the growing demand for security and surveillance, rising utilization in the military and defense sector, increasing prevalence of arthritis, breast cancer, and nerve-associated issues among individuals, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global infrared imaging market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Axis Communications, Cox Communications, Episensors Inc., FLIR Systems, Fluke Corporation, L3 Technologies, Leonardo DRS, OPGAL Optronics Industries Ltd., Princeton Infrared Technologies Inc., Raptor Photonics Ltd., Sensors Unlimited Inc., Sofradir, Tonbo Imaging Pvt. Ltd., XenICs, Zhejiang Dali Technology Co. Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global infrared imaging market in 2023?
2. What is the expected growth rate of the global infrared imaging market during 2024-2032?
3. What has been the impact of COVID-19 on the global infrared imaging market?

4. What are the key factors driving the global infrared imaging market?
5. What is the breakup of the global infrared imaging market based on the technology?
6. What is the breakup of the global infrared imaging market based on the wavelength?
7. What is the breakup of the global infrared imaging market based on the application?
8. What is the breakup of the global infrared imaging market based on the vertical?
9. What are the key regions in the global infrared imaging market?
10. Who are the key players/companies in the global infrared imaging market?

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