

Infrared Imaging Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview 2023-2028:

The global infrared imaging market size reached US\$ 6.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 9.7 Billion by 2028, exhibiting a growth rate (CAGR) of 6.7% during 2023-2028.

Infrared (IR) imaging refers to the technology that is used for capturing invisible IR radiation and converting it into visible images. Also known as thermography, it requires specialized devices that detect the invisible IR radiation emitted by warm objects and convert the signals to an image. The imaging technique can also be used to measure temperature differences in small and moving objects while producing clear thermal images in low-light situations. Owing to these benefits, it finds extensive applications across the automotive, aerospace, electronics, military & defense, and oil and gas industries.

Infrared Imaging Market Trends:

The increasing adoption of IR cameras for military applications is one of the key factors driving the growth of the market. Military and defense industries use infrared imaging for surveillance and high-resolution vision in a dark environment. Furthermore, with the advent of advanced driver-assistance systems (ADAS) and autonomous vehicle (AV) platforms, the requirement of IR imaging solutions in automobiles has significantly increased. It is used to detect objects, animals and pedestrians on the road and alert the vehicle driver to prevent any accidents. Additionally, in the healthcare sector, IR imaging is being used as a non-invasive measure to monitor body temperature and

track disease patterns for diagnosing neurological, vascular and urological disorders. Moreover, technological advancements, including the development of high-speed cameras with advanced features for evaluating the severity of heat, along with the production of lightweight, receptive and more convenient industrial IR imaging devices, are projected to drive the market in the upcoming years.

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 2023-2028. Our report has categorized the market based on technology, component, wavelength, application and vertical.

Breakup by Technology:

- Cooled Infrared Imaging
- Uncooled Infrared Imaging

Breakup by Component:

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

Breakup by Wavelength:

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

Breakup by Application:

- Security and Surveillance
- Monitoring and Inspection

Condition Monitoring
Structural Health Monitoring
Quality Control

Detection

Gas Detection
Fire/Flare Detection
Body Temperature Measurement

Breakup by Vertical:

Industrial

Automotive
Aerospace
Electronics & Semiconductor
Oil & Gas
Military and Defense
Others

Non-Industrial

Breakup by Region:

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

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being 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.

Key Questions Answered in This Report:

What was the size of the global infrared imaging market in 2022?

What is the expected growth rate of the global infrared imaging market during 2023-2028?

What has been the impact of COVID-19 on the global infrared imaging market?

What are the key factors driving the global infrared imaging market?

What is the breakup of the global infrared imaging market based on the technology?

What is the breakup of the global infrared imaging market based on the wavelength?

What is the breakup of the global infrared imaging market based on the application?

What is the breakup of the global infrared imaging market based on the vertical?

What are the key regions in the global infrared imaging market?

Who are the key players/companies in the global infrared imaging market?

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