

Cooled IR Camera Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-10-15 | 141 pages | IMARC Group

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Report description:

Market Overview:

The global cooled IR camera market size reached US\$ 293.3 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 597.8 Million by 2028, exhibiting a growth rate (CAGR) of 11.4% during 2023-2028.

Cooled infrared (IR) cameras are non-contact devices that detect infrared energy and convert it into an electronic signal, which is then processed to produce a thermal image. They consist of an imaging sensor that is integrated with a cryocooler, which lowers the sensor temperature to cryogenic temperature. They are widely used for long-range imaging as it employs highly sensitive focal plane array (FPA) technology. Cooled IR cameras are generally contained in a vacuum-sealed case and provide better detail on the target and help detect even the faintest thermal anomalies. As a result, they find extensive applications across the automotive, industrial, military, and defense industries.

Cooled IR Camera Market Trends:

The widespread product adoption in security and surveillance applications across the globe is creating a positive outlook for the market. In line with this, governments of various nations are introducing new technologies and strategies to ensure public safety and security due to the surge in terrorist attacks, antisocial behavior, and crime rates, which, in turn, is acting as another growth-inducing factor. Additionally, the increasing product utilization in homeland security, perimeter surveillance, defense, and enforcement fields, as it offers enhanced features, such as superior aiming capabilities, excellent performance, and high reliability on the fields, is favoring the market growth. Apart from this, the introduction of advanced cooled IR cameras that increase the thermal images' sensitivity and accuracy and provide better details on the target is providing an impetus to the market growth. Moreover, the increasing demand for cooled IR cameras over uncooled IR cameras due to their ability to efficiently perform spectral filtering to uncover details and take measurements is facilitating the market growth. Other factors, including rising product demand in the military industry for continual and rigorous surveillance, rising expenditure capacities of consumers, and

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extensive research and development (R&D) activities, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global cooled IR camera market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology, distribution channel and end use.

Breakup by Technology:

- Indium Antimonide (InSb)
- Indium Gallium Arsenide (InGaAs)
- Mercury Cadmium Telluride (MCT)
- Others

Breakup by Distribution Channel:

- Direct
- Indirect

Breakup by End Use:

- Defense and Military
- Industrial
- Commercial Surveillance
- Automotive
- Others

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

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Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AIM Infrarot-Module GmbH, Boston Electronics Corporation, Hamamatsu Photonics K.K., InfraTec GmbH, IRCameras LLC, L3Harris Technologies Inc., Leonardo DRS (Leonardo S.p.A.), Lynred USA, TBT Systems, Teledyne FLIR LLC (Teledyne Technologies Incorporated) and Xenics nv.

Key Questions Answered in This Report:

How has the global cooled IR camera market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global cooled IR camera market?
What are the key regional markets?
What is the breakup of the market based on the technology?
What is the breakup of the market based on the distribution channel?
What is the breakup of the market based on the end use?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global cooled IR camera market and who are the key players?
What is the degree of competition in the industry?

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