

Cooled IR Camera Market Report by Technology (Indium Antimonide (InSb), Indium Gallium Arsenide (InGaAs), Mercury Cadmium Telluride (MCT), and Others), Distribution Channel (Direct, Indirect), End Use (Defense and Military, Industrial, Commercial Surveillance, Automotive, and Others), and Region 2024-2032

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Abstracts

The global cooled IR camera market size reached US\$ 326.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 718.3 Million by 2032, exhibiting a growth rate (CAGR) of 8.87% during 2024-2032.

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 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 2024-2032. 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

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

1. How big is the global cooled IR camera market?
2. What is the expected growth rate of the global cooled IR camera market during 2024-2032?

3. What are the key factors driving the global cooled IR camera market?
4. What has been the impact of COVID-19 on the global cooled IR camera market?
5. What is the breakup of the global cooled IR camera market based on the technology?
6. What is the breakup of the global cooled IR camera market based on the end use?
7. What are the key regions in the global cooled IR camera market?
8. Who are the key players/companies in the global cooled IR camera market?

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