

# **Cooled IR Camera Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032**

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## **Abstracts**

The Global Cooled IR Camera Market was valued at USD 350 million in 2023 and is projected to grow at a CAGR of 8% from 2024 to 2032. This growth is primarily driven by the increasing demand for advanced imaging technologies, particularly in the military and defense sectors. Cooled IR cameras offer high sensitivity and superior image quality, making them essential for a variety of defense applications such as surveillance, target acquisition, and reconnaissance. Cooled IR cameras can detect heat signatures over long distances, even in challenging conditions like darkness, fog, smoke, or other visual obstructions. This capability is critical for nighttime operations and battlefield awareness, where clear and detailed thermal images support better decision-making in mission-critical scenarios.

The industrial inspection segment is expected to grow at a notable CAGR of 10% during the forecast period. Industries such as manufacturing, oil and gas, and power generation rely on cooled IR cameras to monitor equipment and prevent failures by identifying overheating, leaks, or electrical issues early on. In terms of wavelength, the market is divided into short-wave infrared (SWIR), mid-wave infrared (MWIR), and long-wave infrared (LWIR). The short-wave infrared (SWIR) segment currently holds the largest share and is expected to generate USD 300 million by 2032. SWIR cameras are particularly effective for detecting reflected light, making them ideal for specialized applications where detailed imaging is required beyond heat emission detection.

North America led the global cooled IR camera market in 2023, capturing over 35% of the market share. This dominance is attributed to the region's robust defense sector, extensive industrial activities, and leadership in technological innovation. In particular, the United States plays a key role in market growth due to its strong investment in

reconnaissance and surveillance technologies, including cooled IR cameras. The growing emphasis on industrial automation and predictive maintenance across various industries, including manufacturing and energy, also boosts demand in the region.

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