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Global Long-Wave Cooled Infrared Detectors Market Growth 2025-2031

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Abstracts

The global Long-Wave Cooled Infrared Detectors market size is predicted to grow from US$ 212 million in 2025 to US$ 285 million in 2031; it is expected to grow at a CAGR of 5.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Long-wave cooled infrared detectors are highly sensitive sensors designed to detect infrared (IR) radiation in the long-wave infrared (LWIR) spectral range, typically from 8 to 14 micrometers (μm). These detectors are cooled—often using cryogenic methods like Stirling or Joule-Thomson coolers—to reduce thermal noise and improve signal-to-noise ratio, allowing for extremely precise thermal imaging, especially in low-temperature or low-contrast environments.

They are commonly based on materials like HgCdTe (mercury cadmium telluride) or InSb (indium antimonide) and are used in advanced applications such as military-grade thermal imaging, space-based observation, scientific instrumentation, missile guidance systems, and surveillance, where high resolution and sensitivity are critical. The cooling system enables these detectors to outperform uncooled variants in terms of detection range, resolution, and image clarity.

United States market for Long-Wave Cooled Infrared Detectors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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China market for Long-Wave Cooled Infrared Detectors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Long-Wave Cooled Infrared Detectors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Long-Wave Cooled Infrared Detectors players cover Lynred, L3Harris, VIGO Photonics, Teledyne, FLIR, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Long-Wave Cooled Infrared Detectors Industry Forecast” looks at past sales and reviews total world Long-Wave Cooled Infrared Detectors sales in 2024, providing a comprehensive analysis by region and market sector of projected Long-Wave Cooled Infrared Detectors sales for 2025 through 2031. With Long-Wave Cooled Infrared Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Long-Wave Cooled Infrared Detectors industry.

This Insight Report provides a comprehensive analysis of the global Long-Wave Cooled Infrared Detectors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Long-Wave Cooled Infrared Detectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Long-Wave Cooled Infrared Detectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Long-Wave Cooled Infrared Detectors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Long-Wave Cooled Infrared Detectors.

This report presents a comprehensive overview, market shares, and growth opportunities of Long-Wave Cooled Infrared Detectors market by product type, application, key manufacturers and key regions and countries.

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Segmentation by Type:

- Mercury Cadmium Telluride (HgCdTe) Detector
- Quantum Well Infrared Photodetectors (QWIP) Detector
- Type II Superlattice Detector

Segmentation by Application:

- Military and Defense
- Aerospace
- Industrial Testing
- Medical Diagnosis
- Security Monitoring
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

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market penetration.

Lynred

L3Harris

VIGO Photonics

Teledyne

FLIR

SIMTRUM

Leonardo

SCD

Wuhan Guide Infrared

Wuhan GLOBAL Sensor Technology

China Electronics Technology Group

Raytron Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Long-Wave Cooled Infrared Detectors market?
What factors are driving Long-Wave Cooled Infrared Detectors market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Long-Wave Cooled Infrared Detectors market opportunities vary by end market size?
How does Long-Wave Cooled Infrared Detectors break out by Type, by Application?

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