

Global Cooled Long-Wave Infrared Detectors Market Growth 2026-2032

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Abstracts

The global Cooled Long-Wave Infrared Detectors market size is predicted to grow from US\$ 205 million in 2025 to US\$ 314 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Long-wave infrared (LWIR) generally refers to the infrared spectral region of 8-14 micrometers. A cooled long-wave infrared detector is an optoelectronic device capable of detecting LWIR radiation. It employs cooling technology to reduce the operating temperature of the detector to a low-temperature state, thereby enhancing the sensitivity and performance of the detector. This enables effective detection within the LWIR band.

United States market for Cooled Long-Wave Infrared Detectors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Cooled Long-Wave Infrared Detectors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Cooled Long-Wave Infrared Detectors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cooled Long-Wave Infrared Detectors players cover Hamamatsu Photonics K.K., GSTiR, GUIDE INFRARED, Leonardo SpA, SemiConductor Devices, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Cooled Long-Wave Infrared

Detectors Industry Forecast? looks at past sales and reviews total world Cooled Long-Wave Infrared Detectors sales in 2025, providing a comprehensive analysis by region and market sector of projected Cooled Long-Wave Infrared Detectors sales for 2026 through 2032. With Cooled Long-Wave Infrared Detectors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cooled Long-Wave Infrared Detectors industry.

This Insight Report provides a comprehensive analysis of the global Cooled Long-Wave 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 Cooled Long-Wave Infrared Detectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cooled Long-Wave Infrared Detectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cooled Long-Wave 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 Cooled Long-Wave Infrared Detectors.

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

Segmentation by Type:

T2SL

MCT

InSb

Others

Segmentation by Application:

Security Monitoring

Consumer Electronics

Military

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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 market penetration.

Hamamatsu Photonics K.K.

GSTiR

GUIDE INFRARED

Leonardo SpA

SemiConductor Devices

Lynred

VIGO Photonics SA

Zhejiang Kunteng Photonics Technologies Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cooled Long-Wave Infrared Detectors market?

What factors are driving Cooled Long-Wave Infrared Detectors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cooled Long-Wave Infrared Detectors market opportunities vary by end market size?

How does Cooled Long-Wave Infrared Detectors break out by Type, by Application?

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