

Global Uncooled Infrared Focal Plane Detector System Market Growth 2026-2032

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Abstracts

The global Uncooled Infrared Focal Plane Detector System market size is predicted to grow from US\$ 157 million in 2025 to US\$ 286 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

An Uncooled Infrared Focal Plane Detector System is a thermal imaging detection system that operates without cryogenic cooling. It uses microbolometer or other thermal-sensitive materials arranged in a focal plane array to detect infrared radiation emitted by objects. These systems convert temperature differences into electrical signals, enabling thermal imaging in devices such as infrared cameras, surveillance systems, automotive night-vision sensors, industrial inspection tools, and firefighting equipment. They are valued for their low cost, small size, low power consumption, and durability, making them widely used across both commercial and defense applications. In 2025, global Uncooled Infrared Focal Plane Detector System production reached approximately 180 k units, with an average global market price of around US\$ 890 per unit. The production capacity for Uncooled Infrared Focal Plane Detector System in 2025 was approximately 190 k units. The typical gross profit margin for Uncooled Infrared Focal Plane Detector System between 30% and 40%.

United States market for Uncooled Infrared Focal Plane Detector System 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 Uncooled Infrared Focal Plane Detector System 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 Uncooled Infrared Focal Plane Detector System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Uncooled Infrared Focal Plane Detector System players cover Teledyne FLIR, Leonardo DRS, Lynred, L3Harris, SEEK Thermal, 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 “Uncooled Infrared Focal Plane Detector System Industry Forecast” looks at past sales and reviews total world Uncooled Infrared Focal Plane Detector System sales in 2025, providing a comprehensive analysis by region and market sector of projected Uncooled Infrared Focal Plane Detector System sales for 2026 through 2032. With Uncooled Infrared Focal Plane Detector System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Uncooled Infrared Focal Plane Detector System industry.

This Insight Report provides a comprehensive analysis of the global Uncooled Infrared Focal Plane Detector System 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 Uncooled Infrared Focal Plane Detector System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Uncooled Infrared Focal Plane Detector System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Uncooled Infrared Focal Plane Detector System 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 Uncooled Infrared Focal Plane Detector System.

This report presents a comprehensive overview, market shares, and growth opportunities of Uncooled Infrared Focal Plane Detector System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

VOx

?-Si

Segmentation by Pixel Pitch:

8?m/6?m

10?m

12?m

17?m

Others

Segmentation by Application:

Civilian

Government

Military

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.

Teledyne FLIR

Leonardo DRS

Lynred

L3Harris

SEEK Thermal

BAE Systems

Raytheon

NEC

SCD

VIGO Photonics

Wuhan GuideInfrared

Raytron Technology

Zhe JIANG Dali Technology

Northern Guangwei Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Uncooled Infrared Focal Plane Detector System market?

What factors are driving Uncooled Infrared Focal Plane Detector System market

growth, globally and by region?

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

How do Uncooled Infrared Focal Plane Detector System market opportunities vary by end market size?

How does Uncooled Infrared Focal Plane Detector System break out by Type, by Application?

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