

Global Uncooled Focal Plane Array (FPA) Infrared Detector Market Growth 2025-2031

<https://marketpublishers.com/r/GC71EF018CC0EN.html>

Date: November 2025

Pages: 107

Price: US\$ 3,660.00 (Single User License)

ID: GC71EF018CC0EN

Abstracts

The global Uncooled Focal Plane Array (FPA) Infrared Detector market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %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.

An uncooled focal plane array (FPA) infrared detector is a type of thermal detector that converts infrared radiation into electrical signals. It consists of an array of small thin-film bolometers arranged in a matrix in the focal plane of the detector. A bolometer is a device that changes its resistance according to the temperature change caused by the incoming infrared radiation. An uncooled FPA infrared detector does not require any cooling mechanism to operate, unlike some other types of infrared detectors. This reduces the cost, size, weight, and power consumption of the detector. Uncooled FPA infrared detectors are used for various applications, such as military and defense, automotive, smart home, medical, and others.

The industry trend of uncooled FPA infrared detectors is expected to show a positive growth in the forecast period of 2023 to 2028, driven by factors such as a regular reduction in the cost of thermal imaging applications, increasing demand from various end-user sectors, technological advancements in material and design, and rising awareness of the benefits of thermal imaging. Some of the challenges that may hinder the growth of this market are low adoption rate and lack of awareness in specific segments, competition from other types of infrared detectors, and regulatory and environmental issues. Some of the opportunities that may boost the growth of this

market are emerging applications in smart home, medical, automotive, and consumer sectors, increasing demand from developing regions, and integration with artificial intelligence and machine learning

LP Information, Inc. (LPI) ' newest research report, the "Uncooled Focal Plane Array (FPA) Infrared Detector Industry Forecast" looks at past sales and reviews total world Uncooled Focal Plane Array (FPA) Infrared Detector sales in 2024, providing a comprehensive analysis by region and market sector of projected Uncooled Focal Plane Array (FPA) Infrared Detector sales for 2025 through 2031. With Uncooled Focal Plane Array (FPA) Infrared Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Uncooled Focal Plane Array (FPA) Infrared Detector industry.

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

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

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

Segmentation by Type:

Vanadium Oxide (VOx)

Amorphous Silicon (A-Si)

Segmentation by Application:

Military and Defense

Automotive

Smart Home

Medical

Other

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.

FLIR-SYSTEMS

ULIS

DRS

BAE

L-3

NEC

North Guangwei

Raytheon

SCD

Mitsubishi

Toshiba

Zhejiang Dali

IRay Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Uncooled Focal Plane Array (FPA) Infrared Detector market?

What factors are driving Uncooled Focal Plane Array (FPA) Infrared Detector market growth, globally and by region?

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

How do Uncooled Focal Plane Array (FPA) Infrared Detector market opportunities vary by end market size?

How does Uncooled Focal Plane Array (FPA) Infrared Detector break out by Type, by Application?

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