

Global Uncooled Infrared Detector Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Uncooled Infrared Detector market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Uncooled Infrared Detector market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An uncooled infrared detector is a type of thermal sensor that captures infrared radiation without the need for cryogenic cooling, making it more compact, energy-efficient, and cost-effective than cooled alternatives. These detectors typically operate at or near ambient temperature and use materials such as vanadium oxide (VOx) or amorphous silicon to detect temperature differences and convert infrared radiation into electrical signals. Commonly used in thermal imaging cameras, surveillance systems, automotive night vision, firefighting, and industrial monitoring, uncooled infrared detectors offer reliable performance in a wide range of environments, with the advantages of reduced size, lower maintenance, and faster start-up times compared to cooled detectors.

The major global manufacturers of Uncooled Infrared Detector include FLIR Systems, ULIS, DRS, Semi Conductor Devices?SCD?, BAE, VIGO System SA, North GuangWei, The 11th Research Institute of CETC, Wuhan Guide, Zhejiang Dali, Raytron Technology, HIKMICRO, Guohui Photoelectric Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises

global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Uncooled Infrared Detector. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Uncooled Infrared Detector market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Uncooled Infrared Detector market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Uncooled Infrared Detector industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Uncooled Infrared Detector Include:

FLIR Systems

ULIS

DRS

Semi Conductor Devices?SCD?

BAE

VIGO System SA

North GuangWei

The 11th Research Institute of CETC

Wuhan Guide

Zhejiang Dali

Raytron Technology

HIKMICRO

Guohui Photoelectric Technology

Uncooled Infrared Detector Product Segment Include:

Bolometer

Pyroelectric Detector

Thermopile Detector

Diode Detector

Thermal Capacitance Detector

OtherS

Uncooled Infrared Detector Product Application Include:

Civil

Military

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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