

Global Infrared Photodetectors and Infrared Focal Plane Arrays Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Photodetectors and Infrared Focal Plane Arrays market size was valued at US\$ 1934 million in 2025 and is forecast to a readjusted size of US\$ 3159 million by 2032 with a CAGR of 7.2% during review period.

Infrared photodetectors and infrared focal plane arrays are core optoelectronic devices that convert incident infrared photons into readable electrical signals through semiconductor-based photon absorption, photovoltaic response, photoconductive response, avalanche gain, quantum-well transition, superlattice absorption or quantum-dot conversion. This study focuses on single-element detectors, linear arrays, area focal plane arrays, integrated detector-ROIC assemblies, cooled detector assemblies and detector-level modules used across near-infrared, short-wave infrared, mid-wave infrared, long-wave infrared and very-long-wave infrared bands. Typical material and device platforms include HgCdTe/MCT, InSb, InGaAs, InAs/InAsSb, Type-II superlattice, QWIP, PbS/PbSe and emerging colloidal quantum-dot SWIR technologies. Key performance parameters include spectral response, quantum efficiency, detectivity, dark current, noise-equivalent temperature difference, operating temperature, pixel pitch, array format, frame rate, cooling architecture and package reliability. The main application fields include defense electro-optics, missile warning and seekers, infrared search and track, space imaging, remote sensing, scientific instrumentation, industrial SWIR inspection, gas sensing, laser detection, semiconductor inspection and high-end machine vision.

Based on our research, the infrared photodetector industry should be understood as a high-barrier optoelectronic component industry rather than a generic sensor market. Its

competitive foundation lies in semiconductor material growth, detector chip processing, ROIC integration, vacuum packaging, cryogenic cooling, reliability screening and application-specific system adaptation. Under the narrow scope adopted in this study, the core value pool is concentrated in HgCdTe/MCT, InSb, InGaAs, Type-II superlattice, QWIP and emerging CQD SWIR technologies. High-performance cooled FPAs and IDCAs are characterized by low-to-medium shipment volume, high unit value and strong technical barriers. The broader industry pool includes many thermal camera makers, instrument companies, distributors and catalog suppliers, but the number of companies capable of producing detector chips, focal plane arrays or cooled detector assemblies is much smaller. Therefore, this report separates the global longlist, the core formal list and the revenue-model scope to avoid overstating the number of real detector manufacturers.

From a global supply perspective, the United States, France, Germany, Israel, the United Kingdom/United States defense ecosystem, China, Japan and South Korea constitute the main supply centers for infrared photodetectors and infrared focal plane arrays.

Demand growth is driven by two structurally different groups of applications. The first group is defense and aerospace, including EO/IR systems, missile warning, missile seekers, infrared search and track, space imaging and remote sensing; these applications sustain the demand for high-end cooled MCT, InSb, T2SL and QWIP detectors. The second group is industrial and scientific sensing, including SWIR machine vision, semiconductor inspection, food sorting, recycling, lithium battery and photovoltaic inspection, gas sensing, spectroscopy and laser detection; these applications support InGaAs, extended InGaAs, CQD SWIR and compact detector modules. Policy and supply-chain dynamics are also important. Major economies increasingly view infrared detectors as strategic components for national security, advanced sensing and space capability, which is reinforcing local supply-chain investment in the United States, Europe and China.

Technology evolution is moving toward higher operating temperature, smaller pixel pitch, larger array format, broader spectral response, lower cost and easier integration. In the cooled detector segment, HOT MCT and Type-II superlattice technologies are used to reduce cooling burden and improve SWaP characteristics. In the SWIR segment, Cu-Cu bonding, large-format InGaAs arrays, extended InGaAs and colloidal quantum-dot approaches are pushing the market toward broader industrial adoption. In single-element and module applications, MCT, InSb, InAs/InAsSb, PbS/PbSe and InGaAs detectors remain relevant for gas sensing, laser detection and scientific

instrumentation. The future competitive landscape is unlikely to be a single-route replacement story; instead, defense and space will continue to favor high-barrier cooled technologies, while industrial vision and sensing will drive cost-down innovation in SWIR and compact photonic detector platforms.

This report is a detailed and comprehensive analysis for global Infrared Photodetectors and Infrared Focal Plane Arrays market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Infrared Photodetectors and Infrared Focal Plane Arrays market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Photodetectors and Infrared Focal Plane Arrays market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Photodetectors and Infrared Focal Plane Arrays market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Infrared Photodetectors and Infrared Focal Plane Arrays market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Infrared Photodetectors and Infrared Focal Plane Arrays

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Infrared Photodetectors and Infrared Focal Plane Arrays market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne Technologies Incorporated, Lockheed Martin Corporation, Leonardo S.p.A., Lynred SAS, RTX Corporation, Semi Conductor Devices, AIM Infrarot-Module GmbH, L3Harris Technologies, Inc., BAE Systems plc, Hamamatsu Photonics K.K., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Infrared Photodetectors and Infrared Focal Plane Arrays market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Photoconductive Type

Photovoltaic Type

Optical Magnetoelectric Type

Others

Market segment by Spectral Band

NIR / Near Infrared

SWIR / Short-Wave Infrared

MWIR / Mid-Wave Infrared

LWIR / Long-Wave Infrared

VLWIR / Very-Long-Wave Infrared

Other / Custom Bands

Market segment by Material Platform

HgCdTe / MCT

InSb

InGaAs

InAs / InAsSb

Type-II Superlattice

QWIP

CQD SWIR

Other Photon Materials

Market segment by Application

Defense EO/IR

Missile Warning and Seekers

Space and Remote Sensing

Industrial SWIR Inspection

Gas Sensing and Spectroscopy

Scientific and Medical Research

LiDAR and Active Imaging

Other / Custom

Major players covered

Teledyne Technologies Incorporated

Lockheed Martin Corporation

Leonardo S.p.A.

Lynred SAS

RTX Corporation

Semi Conductor Devices

AIM Infrarot-Module GmbH

L3Harris Technologies, Inc.

BAE Systems plc

Hamamatsu Photonics K.K.

VIGO Photonics S.A.

IRnova AB

QmagiQ LLC

Wuhan Guide Infrared Co., Ltd.

Vision Optoelectronics Technology Co., Ltd.

Zhejiang Qinfrared Technologies Co., Ltd.

Sony Semiconductor Solutions Corporation

Exosens

New Imaging Technologies

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Gpixel Microelectronics Inc.

i3system, Inc.

Chunghwa Leading Photonics Tech Ltd.

Excelitas Technologies Corp.

Laser Components GmbH

Kolmar Technologies, Inc.

EPIR Technologies, Inc.

Albis Optoelectronics AG

OSI Optoelectronics

Marktech Optoelectronics

Dexerials Corporation

Lonten OE

National Chung-Shan Institute of Science and Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Infrared Photodetectors and Infrared Focal Plane Arrays product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Photodetectors and Infrared Focal Plane Arrays, with price, sales quantity, revenue, and global market share of Infrared Photodetectors and Infrared Focal Plane Arrays from 2021 to 2026.

Chapter 3, the Infrared Photodetectors and Infrared Focal Plane Arrays competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Photodetectors and Infrared Focal Plane Arrays breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Infrared Photodetectors and Infrared Focal Plane Arrays market forecast,

by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Infrared Photodetectors and Infrared Focal Plane Arrays.

Chapter 14 and 15, to describe Infrared Photodetectors and Infrared Focal Plane Arrays sales channel, distributors, customers, research findings and conclusion.

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