

# Infrared Detector - Global Market Outlook (2017-2026)

<https://marketpublishers.com/r/I7F606C9FC3EN.html>

Date: November 2018

Pages: 177

Price: US\$ 4,150.00 (Single User License)

ID: I7F606C9FC3EN

## Abstracts

According to Statistics MRC, the Global Infrared Detector Market is accounted for \$307.25 million in 2017 and is expected to reach \$760.83 million by 2026 growing at a CAGR of 10.6% during the forecast Period. Increasing demand for consumer electronics and growing security concerns are some of the factors driving the market growth. However, the high cost of the technology and availability of substitutes for infrared gas detectors are restricting the market growth. In addition, a rising scope for consumer electronics application is the factor providing ample of the opportunities.

An infrared detector is an electronic device that is used to detect infrared radiation in order to measure heat and detect motion of the surrounding objects. It is integrated with different devices used in surveillance, automobiles, testing, detection, and measurement. Infrared detectors that convert infrared radiation into an electrical signal are one of the most significant groups of sensors in defense system applications. These detectors are increasingly becoming a prime component of consumer electronics devices such as smart TV, smartphone and others. It is integrated with different devices used in surveillance, automobiles, testing, detection, and measurement.

Amongst type, Thermopile segment accounted for the largest market in infrared detectors due to the preference for contactless temperature measurement in many applications. By geography, Asia Pacific held largest market share during the forecast period owing to witnessing an increase in the demand for infrared detectors from the military and defense sectors and temperature measurement and industrial applications. Major countries contributing toward the growth of infrared detector market in the region are Japan, China, India, and Taiwan.

Some of the key players profiled in the Infrared Detector market include Honeywell International Inc, Flir Systems Inc, Texas Instruments Inc, Murata Manufacturing Co. Ltd, Excelitas Technologies Corp, Nippon Ceramic Co. Ltd, Raytheon Company,

Melexis NV, Google Inc, Microsoft Corporation, IBM Corporation, Vigo System S.A, Sofradir SAS, Infratec GmbH, Siemens AG, ABB Ltd, ULIS, Omron Corporation, and Hamamatsu Photonics KK.

Wavelengths Covered:

Short-Wave Infrared

Medium-Wave Infrared

Long-Wavelength Infrared

Types Covered:

Microbolometer

Indium Gallium Arsenide (InGaAs)

Mercury Cadmium Telluride (MCT)

Pyroelectric

Thermopile

Other Types

Technologies Covered:

Cooled IR Detector Technology

Uncooled IR Detector Technology

Applications Covered:

Spectroscopy & Biomedical Imaging

Temperature Measurement

Smart Home

Industrial

People and Motion Sensing

Security

Consumer Electronics

Heating, ventilation, and air conditioning (HVAC)

Other Applications

#### End Users Covered

Automotive

Healthcare

Manufacturing

Military and Defense

Other End Users

#### Regions Covered:

North America

US

Canada

Mexico

## Europe

Germany

France

Italy

UK

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

## **WHAT OUR REPORT OFFERS:**

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments, and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Futuristic Market Scenario

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL INFRARED DETECTOR MARKET, BY WAVELENGTH**

- 5.1 Introduction
- 5.2 Short-Wave Infrared
- 5.3 Medium-Wave Infrared
- 5.4 Long-Wavelength Infrared

## **6 GLOBAL INFRARED DETECTOR MARKET, BY TYPE**

- 6.1 Introduction
- 6.2 Microbolometer
- 6.3 Indium Gallium Arsenide (Ingaas)
- 6.4 Mercury Cadmium Telluride (MCT)
- 6.5 Pyroelectric
- 6.6 Thermopile
- 6.7 Other Types
  - 6.7.1 Polycrystalline lead selenide (PBSE)
  - 6.7.2 Polycrystalline lead sulfide detectors (PBS)

## **7 GLOBAL INFRARED DETECTOR MARKET, BY TECHNOLOGY**

- 7.1 Introduction
- 7.2 Cooled IR Detector Technology
- 7.3 Uncooled IR Detector Technology

## **8 GLOBAL INFRARED DETECTOR MARKET, BY APPLICATION**

- 8.1 Introduction
- 8.2 Spectroscopy & Biomedical Imaging
- 8.3 Temperature Measurement
  - 8.3.1 Contact Temperature Measurement
  - 8.3.2 Non-Contact Temperature Measurement
- 8.4 Smart Home
- 8.5 Industrial
  - 8.5.1 Surveillance and Security
  - 8.5.2 Fire and Gas Detection
    - 8.5.2.1 NDIR Gas Measurement: Technology Development
    - 8.5.2.2 Non-Dispersive Infrared (NDIR) Gas Detection

- 8.6 People and Motion Sensing
  - 8.6.1 People/Motion Detection for Security System
  - 8.6.2 Advanced People Detection and Counting
- 8.7 Security
- 8.8 Consumer Electronics
- 8.9 Heating, ventilation, and air conditioning (HVAC)
- 8.10 Other Applications

## **9 GLOBAL INFRARED DETECTOR MARKET, BY END USER**

- 9.1 Introduction
- 9.2 Automotive
- 9.3 Healthcare
- 9.4 Manufacturing
- 9.5 Military and Defense
- 9.6 Other End Users

## **10 GLOBAL INFRARED DETECTOR MARKET, BY GEOGRAPHY**

- 10.1 Introduction
- 10.2 North America
  - 10.2.1 US
  - 10.2.2 Canada
  - 10.2.3 Mexico
- 10.3 Europe
  - 10.3.1 Germany
  - 10.3.2 UK
  - 10.3.3 Italy
  - 10.3.4 France
  - 10.3.5 Spain
  - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
  - 10.4.1 Japan
  - 10.4.2 China
  - 10.4.3 India
  - 10.4.4 Australia
  - 10.4.5 New Zealand
  - 10.4.6 South Korea
  - 10.4.7 Rest of Asia Pacific



- 10.5 South America
  - 10.5.1 Argentina
  - 10.5.2 Brazil
  - 10.5.3 Chile
  - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia
  - 10.6.2 UAE
  - 10.6.3 Qatar
  - 10.6.4 South Africa
  - 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

## **12 COMPANY PROFILING**

- 12.1 Honeywell International Inc
- 12.2 Flir Systems Inc.
- 12.3 Texas Instruments Inc
- 12.4 Murata Manufacturing Co. Ltd.
- 12.5 Excelitas Technologies Corp.
- 12.6 Nippon Ceramic Co. Ltd.
- 12.7 Raytheon Company
- 12.8 Melexis NV
- 12.9 Google Inc.
- 12.10 Microsoft Corporation
- 12.11 IBM Corporation
- 12.12 Vigo System S.A.
- 12.13 Sofradir SAS
- 12.14 Infratec GmbH
- 12.15 Siemens AG
- 12.16 ABB Ltd.
- 12.17 ULIS

12.18 Omron Corporation

12.19 Hamamatsu Photonics KK

## List Of Tables

### LIST OF TABLES

Table 1 Global Infrared Detector Market Outlook, By Region (2016-2026) (\$MN)

Table 2 Global Infrared Detector Market Outlook, By Wavelength (2016-2026) (\$MN)

Table 3 Global Infrared Detector Market Outlook, By Short-Wave Infrared (2016-2026) (\$MN)

Table 4 Global Infrared Detector Market Outlook, By Medium-Wave Infrared (2016-2026) (\$MN)

Table 5 Global Infrared Detector Market Outlook, By Long-Wavelength Infrared (2016-2026) (\$MN)

Table 6 Global Infrared Detector Market Outlook, By Type (2016-2026) (\$MN)

Table 7 Global Infrared Detector Market Outlook, By Microbolometer (2016-2026) (\$MN)

Table 8 Global Infrared Detector Market Outlook, By Indium Gallium Arsenide (Ingaas) (2016-2026) (\$MN)

Table 9 Global Infrared Detector Market Outlook, By Mercury Cadmium Telluride (MCT) (2016-2026) (\$MN)

Table 10 Global Infrared Detector Market Outlook, By Pyroelectric (2016-2026) (\$MN)

Table 11 Global Infrared Detector Market Outlook, By Thermopile (2016-2026) (\$MN)

Table 12 Global Infrared Detector Market Outlook, By Other Types (2016-2026) (\$MN)

Table 13 Global Infrared Detector Market Outlook, By Polycrystalline lead selenide (PBSE) (2016-2026) (\$MN)

Table 14 Global Infrared Detector Market Outlook, By Polycrystalline lead sulfide detectors (PBS) (2016-2026) (\$MN)

Table 15 Global Infrared Detector Market Outlook, By Technology (2016-2026) (\$MN)

Table 16 Global Infrared Detector Market Outlook, By Cooled IR Detector Technology (2016-2026) (\$MN)

Table 17 Global Infrared Detector Market Outlook, By Uncooled IR Detector Technology (2016-2026) (\$MN)

Table 18 Global Infrared Detector Market Outlook, By Application (2016-2026) (\$MN)

Table 19 Global Infrared Detector Market Outlook, By Spectroscopy & Biomedical Imaging (2016-2026) (\$MN)

Table 20 Global Infrared Detector Market Outlook, By Temperature Measurement (2016-2026) (\$MN)

Table 21 Global Infrared Detector Market Outlook, By Contact Temperature Measurement (2016-2026) (\$MN)

Table 22 Global Infrared Detector Market Outlook, By Non-Contact Temperature

Measurement (2016-2026) (\$MN)

Table 23 Global Infrared Detector Market Outlook, By Smart Home (2016-2026) (\$MN)

Table 24 Global Infrared Detector Market Outlook, By Industrial (2016-2026) (\$MN)

Table 25 Global Infrared Detector Market Outlook, By Surveillance and Security (2016-2026) (\$MN)

Table 26 Global Infrared Detector Market Outlook, By Fire and Gas Detection (2016-2026) (\$MN)

Table 27 Global Infrared Detector Market Outlook, By People and Motion Sensing (2016-2026) (\$MN)

Table 28 Global Infrared Detector Market Outlook, By People/Motion Detection for Security System (2016-2026) (\$MN)

Table 29 Global Infrared Detector Market Outlook, By Advanced People Detection and Counting (2016-2026) (\$MN)

Table 30 Global Infrared Detector Market Outlook, By Security (2016-2026) (\$MN)

Table 31 Global Infrared Detector Market Outlook, By Consumer EleCtronics (2016-2026) (\$MN)

Table 32 Global Infrared Detector Market Outlook, By Heating, ventilation, and air conditioning (HVAC) (2016-2026) (\$MN)

Table 33 Global Infrared Detector Market Outlook, By Other Applications (2016-2026) (\$MN)

Table 34 Global Infrared Detector Market Outlook, By End User (2016-2026) (\$MN)

Table 35 Global Infrared Detector Market Outlook, By Automotive (2016-2026) (\$MN)

Table 36 Global Infrared Detector Market Outlook, By Healthcare (2016-2026) (\$MN)

Table 37 Global Infrared Detector Market Outlook, By Manufacturing (2016-2026) (\$MN)

Table 38 Global Infrared Detector Market Outlook, By Military and Defense (2016-2026) (\$MN)

Table 39 Global Infrared Detector Market Outlook, By Other End Users (2016-2026) (\$MN)

**Note:** North America, Europe, Asia Pacific, South America, and Middle East & Africa are represented in the above manner.

## I would like to order

Product name: Infrared Detector - Global Market Outlook (2017-2026)

Product link: <https://marketpublishers.com/r/I7F606C9FC3EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I7F606C9FC3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970