

Spectroscopy IR Detector Market by Detector Technology (DTGS, MCT, InGaAs), Spectrum Sensitivity (NIR, Mid IR, and Far IR), Cooling Requirement (Cooled and Uncooled), Product Type (Benchtop, Portable, Hyphenated) - Global Forecast to 2022

<https://marketpublishers.com/r/S39425898FCEN.html>

Date: August 2016

Pages: 123

Price: US\$ 5,650.00 (Single User License)

ID: S39425898FCEN

Abstracts

The IR detector market for IR spectroscopy is estimated to be worth USD 224.5 million by 2022, growing at a CAGR of 6.9% during the forecast period. The market size, in terms of volume, is expected to grow at a CAGR of 7.7% during the forecast period. IR detector is one of the important components of IR spectroscopy devices. Thus, the increasing shipment of IR spectroscopy devices would foster the growth of the IR detector market in the near future.

“Indium gallium arsenide (InGaAs)-based IR detector is expected to gain maximum traction during the forecast period”

The IR detector market is segmented on the basis of detector technology into mercury cadmium telluride (MCT), deuterated triglycine sulfate (DTGS), indium gallium arsenide (InGaAs), and others. Of these, the InGaAs-based IR detector market is expected to grow at a higher rate than that of the other IR detector technologies during the forecast period. InGaAs-based IR detector is mostly used in NIR spectroscopy devices. Thus, the increasing use of NIR spectroscopy devices in a number of applications in food & beverages, environmental, biological, and other applications foster the growth of the InGaAs-based IR detector market.

“North America held the largest market share in 2015.”

North America held the largest share of the IR detector market for IR spectroscopy market in 2015 and is expected to lead the global market during the forecast period. The key players in the IR detector and IR spectroscopy have their presence in this region. The market in APAC is expected to grow at the highest rate during the forecast period.

In the process of determining and verifying the market size for the several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key opinion leaders. The break-up of the profiles of primary participants is given below:

By Company Type: Tier 1 – 25%, Tier 2 – 42%, and Tier 3 – 33%

By Designation: C-Level Executives – 17%, Directors – 41%, and Others – 42%

By Region: Americas – 50%, APAC – 17%, Europe – 25%, and RoW – 8%

The increasing shipments of IR spectroscopy devices and the industry practice of upgrading old IR spectroscopy device with new IR detector modules are expected to drive the growth of the IR detector market for IR spectroscopy in the next five years.

The key players operating in the IR detector market for IR spectroscopy profiled in the report are:

1. Allied Vision Technologies GmbH (Germany)
2. BaySpec, Inc. (U.S.)
3. Episcensors Inc. (U.S.)
4. Excelitas Technologies Corp. (U.S.)
5. FLIR Systems, Inc. (U.S.)
6. Hamamatsu Photonics K.K. (Japan)
7. HORIBA, Ltd (Japan)
8. LASER Components GmbH (Germany)
9. Newport Corporation (U.S.)
10. Sofradir (France)
11. Teledyne DALSA Inc. (U.S.)
12. UTC Aerospace Systems (U.S.)

Objective of the study:

To define, describe, and forecast the IR detector market for the IR spectroscopy application on the basis of detector technology, spectrum sensitivity, cooling requirement, and product type

To forecast the market size (in terms of value and volume) for various market segments with respect to four main regions, namely, North America, Europe, Asia-Pacific (APAC), and Rest of the World (RoW)

To provide detailed information regarding the major factors influencing the growth of the IR detector market for the IR spectroscopy application

To analyze the opportunities in the market for stakeholders by identifying the high-growth segments of the IR detector market for the IR spectroscopy application

Contents

- 1 INTRODUCTION**
- 2 RESEARCH METHODOLOGY**
- 3 EXECUTIVE SUMMARY**
- 4 MARKET OVERVIEW**
- 5 MARKET BY DETECTOR TECHNOLOGY**
- 6 MARKET BY SPECTRUM SENSITIVITY**
- 7 MARKET BY COOLING REQUIREMENT**
- 8 MARKET BY PRODUCT TYPE**
- 9 MARKET BY GEOGRAPHY**
- 10 COMPETITIVE LANDSCAPE**
- 11 COMPANY PROFILE**

List Of Tables

LIST OF TABLES

Table NO. 2.1: COUNTRY-WISE TRADE OF SPECTROMETERS, SPECTROPHOTOMETERS, AND OTHER DEVICES, 2015

Table NO. 2.2: KEY DATA TAKEN FROM SECONDARY SOURCES

Table NO. 2.3: KEY DATA TAKEN FROM PRIMARY SOURCES

Table NO. 2.4: GENERAL ASSUMPTIONS

Table NO. 2.5: YEAR-WISE & FORECAST ASSUMPTIONS

Table NO. 2.6: YEAR-WISE & FORECAST ASSUMPTIONS

Table NO. 4.1: QUANTIFICATION OF PORTER'S ANALYSIS

Table NO. 5.1: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (UNIT SHIPMENT)

Table NO. 5.2: MCT IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 5.3: DTGS IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.1: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.2: NIR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.3: NIR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.4: MID IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.5: MID IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.6: FAR IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (UNIT SHIPMENT)

Table NO. 6.7: FAR IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (UNIT SHIPMENT)

Table NO. 7.1: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY COOLING REQUIREMENT, 2014–2022 (UNIT SHIPMENT)

Table NO. 8.1: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (UNIT SHIPMENT)

Table NO. 8.2: IR DETECTOR MARKET IN BENCHTOP SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 8.3: IR DETECTOR MARKET IN MICROSPECTROSCOPES, BY

SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 8.4: IR DETECTOR MARKET IN PORTABLE SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 8.5: IR DETECTOR MARKET IN HYPHENATED SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (UNIT SHIPMENT)

Table NO. 9.1: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY REGION, 2014–2022 (UNIT SHIPMENT)

Table NO. 9.2: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN NORTH AMERICA, BY COUNTRY, 2014–2022 (UNIT SHIPMENT)

Table NO. 9.3: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN EUROPE, BY COUNTRY, 2014–2022 (UNIT SHIPMENT)

Table NO. 9.4: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN APAC, BY COUNTRY, 2014–2022 (UNIT SHIPMENT)

Table NO. 10.1: MARKET RANKING ANALYSIS OF IR DETECTOR MARKET

Table NO. 10.2: LIST OF NEW PRODUCT DEVELOPMENT IN THE IR DETECTOR MARKET FOR IR SPECTROSCOPY

Table NO. 10.3: LIST OF EXPANSION IN IR DETECTOR MARKET FOR IR SPECTROSCOPY

Table NO. 10.4: LIST OF MERGER AND ACQUISITIONS IN IR DETECTOR MARKET FOR IR SPECTROSCOPY

Table NO. 10.5: LIST OF AGREEMENTS, PARTNERSHIP, JOINT VENTURES, CONTRACTS & COLLABORATIONS IN IR DETECTOR MARKET FOR IR SPECTROSCOPY

Table NO. 10.6: LIST OF OTHER ACTIVITIES IN IR DETECTOR MARKET FOR IR SPECTROSCOPY

Table NO. 11.1: ALLIED VISION TECHNOLOGIES GMBH: DEVELOPEMENTS

Table NO. 11.2: BAYSPEC, INC.: DEVELOPEMENTS

Table NO. 11.3: EPISENSORS, INC.: DEVELOPEMENTS

Table NO. 11.4: FLIR SYSTEMS, INC.: DEVELOPEMENTS

Table NO. 11.5: HAMAMATSU PHOTONICS K.K.: DEVELOPEMENTS

Table NO. 11.6: HORIBA, LTD.: DEVELOPEMENTS

Table NO. 11.7: NEWPORT CORPORATION: DEVELOPEMENTS

Table NO. 11.8: SENSORS UNLIMITED: DEVELOPEMENTS

Table NO. 11.9: SOFRADIR: DEVELOPEMENTS

Table NO. 11.10: TELEDYNE DALSA INC.: DEVELOPEMENTS

Table NO. 11.11: LASER COMPONENTS GMBH: DEVELOPEMENTS

Table NO. 11.12: EXCELITAS TECHNOLOGIES CORP.: DEVELOPEMENTS

List Of Figures

LIST OF FIGURES

Figure NO. 1.1: IR SPECTRUM RANGE (WAVELENGTH)

Figure NO. 1.2: MARKET COVERED

Figure NO. 2.1: MARKET SIZE ESTIMATION

Figure NO. 2.2: TOP – DOWN & BOTTOM – UP APPROACH

Figure NO. 2.3: MARKET CRACKDOWN & DATA TRIANGULATION

Figure NO. 2.4: KEY INSIGHTS FROM PRIMARY RESPONDENT

Figure NO. 3.1: EXECUTIVE SUMMARY OF IR DETECTOR MARKET FOR IR SPECTROSCOPY IN 2015

Figure NO. 4.1: PARENT MARKET COMPARISON OF IR DETECTOR MARKET FOR IR SPECTROSCOPY

Figure NO. 4.2: MARKET DYNAMICS OF IR DETECTOR MARKET FOR IR SPECTROSCOPY APPLICATION

Figure NO. 4.3: DRIVER IMPACT ANALYSIS OF IR DETECTOR MARKET FOR IR SPECTROSCOPY

Figure NO. 4.4: RESTRAINT IMPACT ANALYSIS OF IR DETECTOR MARKET FOR IR SPECTROSCOPY

Figure NO. 4.5: VALUE CHAIN ANALYSIS OF IR DETECTOR MARKET IN IR SPECTROSCOPY

Figure NO. 4.6: IMPACT ANALYSIS IN 2015

Figure NO. 4.7: IMPACT ANALYSIS IN 2015 & 2022

Figure NO. 4.8: BARGAINING POWER OF SUPPLIER

Figure NO. 4.9: BARGAINING POWER OF BUYER

Figure NO. 4.10: THREAT FROM NEW ENTRANT

Figure NO. 4.11: THREAT FROM SUBSTITUTE

Figure NO. 4.12: INTENSITY OF COMPETITIVE RIVALRY

Figure NO. 5.1: IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY

Figure NO. 5.2: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (USD MILLION)

Figure NO. 5.3: MCT IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 5.4: DTGS IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 6.1: IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY

Figure NO. 6.2: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 6.3: NIR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (USD MILLION)

Figure NO. 6.4: NIR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (USD MILLION)

Figure NO. 6.5: MID IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (USD MILLION)

Figure NO. 6.6: MID IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (USD MILLION)

Figure NO. 6.7: FAR IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY DETECTOR TECHNOLOGY, 2014–2022 (USD MILLION)

Figure NO. 6.8: FAR IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (USD MILLION)

Figure NO. 7.1: IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY COOLING REQUIREMENT

Figure NO. 7.2: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY COOLING REQUIREMENT, 2014–2022 (USD MILLION)

Figure NO. 8.1: IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE

Figure NO. 8.2: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY PRODUCT TYPE, 2014–2022 (USD MILLION)

Figure NO. 8.3: IR DETECTOR MARKET IN BENCHTOP SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 8.4: IR DETECTOR MARKET IN MICROSPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 8.5: IR DETECTOR MARKET IN PORTable SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 8.6: IR DETECTOR MARKET IN HYPHENATED SPECTROSCOPES, BY SPECTRUM SENSITIVITY, 2014–2022 (USD MILLION)

Figure NO. 9.1: GEOGRAPHY SNAPSHOT: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY

Figure NO. 9.2: GLOBAL IR DETECTOR MARKET FOR IR SPECTROSCOPY, BY REGION, 2014–2022 (USD MILLION)

Figure NO. 9.3: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN NORTH AMERICA, BY COUNTRY, 2014–2022 (USD MILLION)

Figure NO. 9.4: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN EUROPE, BY COUNTRY, 2014–2022 (USD MILLION)

Figure NO. 9.5: IR DETECTOR MARKET FOR IR SPECTROSCOPY IN APAC, BY

COUNTRY, 2014–2022 (USD MILLION)

Figure NO. 10.1: IR DETECTOR MARKET: COMPETITIVE SITUATION & TRENDS, 2016–2012

Figure NO. 11.1: TWENTSCHE KABELFABRIEK (TKF) GROUP NV: BUSINESS OVERVIEW

Figure NO. 11.2: ALLIED VISION TECHNOLOGIES GMBH: PRODUCTS OFFERED

Figure NO. 11.3: BAYSPEC, INC.: BUSINESS OVERVIEW

Figure NO. 11.4: BAYSPEC, INC.: PRODUCTS OFFERED

Figure NO. 11.5: EPISENSORS, INC.: BUSINESS OVERVIEW

Figure NO. 11.6: EPISENSORS, INC.: PRODUCTS OFFERED

Figure NO. 11.7: FLIR SYSTEMS, INC.: BUSINESS OVERVIEW

Figure NO. 11.8: FLIR SYSTEMS, INC.: PRODUCTS OFFERED

Figure NO. 11.9: HAMAMATSU PHOTONICS K.K.: BUSINESS OVERVIEW

Figure NO. 11.10: HAMAMATSU PHOTONICS K.K.: PRODUCTS OFFERED

Figure NO. 11.11: HORIBA, LTD.: BUSINESS OVERVIEW

Figure NO. 11.12: HORIBA, LTD.: PRODUCTS OFFERED

Figure NO. 11.13: NEWPORT CORPORATION: BUSINESS OVERVIEW

Figure NO. 11.14: NEWPORT CORPORATION: PRODUCTS OFFERED

Figure NO. 11.15: UNITED TECHNOLOGIES CORPORATION: BUSINESS OVERVIEW

Figure NO. 11.8: SENSORS UNLIMITED: PRODUCTS OFFERED

Figure NO. 11.17: SOFRADIR: BUSINESS OVERVIEW

Figure NO. 11.18: SOFRADIR: PRODUCTS OFFERED

Figure NO. 11.19: TELEDYNE TECHNOLOGIES INC.: BUSINESS OVERVIEW

Figure NO. 11.20: TELEDYNE DALSA INC.: PRODUCTS OFFERED

Figure NO. 11.21: LASER COMPONENTS GMBH: BUSINESS OVERVIEW

Figure NO. 11.22: LASER COMPONENTS GMBH: PRODUCTS OFFERED

Figure NO. 11.23: EXCELITAS TECHNOLOGIES CORP.: BUSINESS OVERVIEW

Figure NO. 11.24: EXCELITAS TECHNOLOGIES CORP.: PRODUCTS OFFERED

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