

Shortwave Infrared (SWIR) Market Report: Trends, Forecast and Competitive Analysis

<https://marketpublishers.com/r/S25A63935682EN.html>

Date: May 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: S25A63935682EN

Abstracts

Get it in 2 to 4 weeks by ordering today

The future of the shortwave infrared market looks promising with opportunities in the defense and military, healthcare & research, and automotive industries. The global shortwave infrared market is expected to decline in 2020 due to the global economic recession led by the COVID-19 pandemic. However, the market will witness recovery in the year 2021, and it is expected to grow with a CAGR of 9% to 11% from 2020 to 2025. The major drivers for this market are increasing demand for shortwave infrared products for monitoring and inspection application and growing demand for line scan shortwave infrared cameras for machine vision applications.

A more than 150 page report is developed to help in your business decisions. Sample figures with some insights are shown below. To learn the scope of, benefits, companies researched and other details of shortwave infrared market report download the report brochure.

The study includes trends and forecasts for the global shortwave infrared market by scanning type, technology, application, vertical, material, end use industry, and region as follows:

By Scanning Type [\$M shipment analysis for 2014 – 2025]:

Area Scan

Line Scan

By Technology [\$M shipment analysis for 2014 – 2025]:

Cooled

Uncooled

By Application [\$M shipment analysis for 2014 – 2025]:

Security & Surveillance

Monitoring & Inspection

Detection

By Vertical [\$M shipment analysis for 2014 – 2025]:

Industrial

Non-Industrial

By Material [\$M shipment analysis for 2014 – 2025]:

Indium Gallium Arsenide

Indium Antimonide

Lead Sulfide

Mercury Cadmium Telluride

By End Use Industry [\$M shipment analysis for 2014 – 2025]:

Defense and Military

Healthcare & Research

Automotive

Others

By Region [\$M shipment analysis for 2014 – 2025]:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Asia Pacific

China

Japan

India

South Korea

The Rest of the World

Some of the shortwave infrared companies profiled in this report include Collins Aerospace, FLIR Systems, Xenics NV, New Imaging Technologies, Allied Vision Technologies, Sensors Unlimited (United Technologies Company), Princeton Instruments, Sofradir Group, Raptor Photonics, and Hamamatsu Photonics K.K.

Lucintel forecasts that uncooled shortwave infrared will remain the largest technology segment over the forecast period due to low maintenance cost of the uncooled SWIR technology and longer service lives than cooled systems.

Security and surveillance will remain the largest application segment during the forecast period due to increasing usage of SWIR cameras for military and defense and aerospace end use industries.

North America will remain the largest region during the forecast period due to growing usage of SWIR for industrial, commercial, military, and defense purposes in countries, such as US and Canada.

Features of Shortwave Infrared Market

Market Size Estimates: Shortwave infrared market size estimation in terms of value (\$M)

Trend and Forecast Analysis: Market trends (2014-2019) and forecast (2020-2025) by various segments and regions.

Segmentation Analysis: Market size by scanning type, technology, application, vertical, material, and end use industry

Regional Analysis: Shortwave infrared market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different scanning type, technology, application, vertical, material, end use industry, and regions for shortwave infrared market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the shortwave infrared market.

Analysis of competitive intensity of the industry based on Porter's Five Forces

model.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high-growth opportunities for the global shortwave infrared market by scanning type (area scan and line scan), technology (cooled and uncooled), application (security & surveillance, monitoring & inspection, and detection), vertical (industrial and non-industrial), material (indium gallium arsenide, indium antimonide, lead sulfide, and mercury cadmium telluride), end use industry (defense and military, healthcare & research, automotive, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the shortwave infrared market?

Q.5 What are the business risks and threats to the shortwave infrared market?

Q.6 What are emerging trends in this shortwave infrared market and the reasons behind them?

Q.7 What are some changing demands of customers in the shortwave infrared market?

Q.8 What are the new developments in the shortwave infrared market? Which companies are leading these developments?

Q.9 Who are the major players in the shortwave infrared market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in the shortwave infrared market, and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M&A activities did take place in the last five years in the shortwave infrared market?

Contents

1. EXECUTIVE SUMMARY

2. MARKET BACKGROUND AND CLASSIFICATIONS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2014 T 2025

3.1: Macroeconomic Trends (2014-2019) and Forecast (2020-2025)

3.2: Global Shortwave Infrared Market Trends (2014-2019) and Forecast (2020-2025)

3.3: Global Shortwave Infrared Market by Scanning Type

3.3.1: Area Scan

3.3.2: Line Scan

3.4: Global Shortwave Infrared Market by Technology

3.4.1: Cooled

3.4.2: Uncooled

3.5: Global Shortwave Infrared Market by Application

3.5.1: Security & Surveillance

3.5.2: Monitoring & Inspection

3.5.3: Detection

3.6: Global Shortwave Infrared Market by Vertical

3.6.1: Industrial

3.6.2: Non-Industrial

3.7: Global Shortwave Infrared Market by Material

3.7.1: Indium Gallium Arsenide

3.7.2: Indium Antimonide

3.7.3: Lead Sulfide

3.7.4: Mercury Cadmium Telluride

3.8: Global Shortwave Infrared Market by End Use Industry

3.8.1: Defense and Military

3.8.2: Healthcare & Research

3.8.3: Automotive

3.8.4: Others

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2014 T 2025

- 4.1: Global Shortwave Infrared Market by Region
- 4.2: North American Shortwave Infrared Market
 - 4.2.1: The US Shortwave Infrared Market
 - 4.2.2: The Canadian Shortwave Infrared Market
 - 4.2.3: The Mexican Shortwave Infrared Market
- 4.3: European Shortwave Infrared Market
 - 4.3.1: German Shortwave Infrared Market
 - 4.3.2: United Kingdom Shortwave Infrared Market
 - 4.3.3: French Shortwave Infrared Market
 - 4.3.4: Italian Shortwave Infrared Market
- 4.4: APAC Shortwave Infrared Market
 - 4.4.1: Chinese Shortwave Infrared Market
 - 4.4.2: Japanese Shortwave Infrared Market
 - 4.4.3: Indian Shortwave Infrared Market
 - 4.4.4: South Korean Shortwave Infrared Market
- 4.5: ROW Shortwave Infrared Market

5. COMPETITOR ANALYSIS

- 5.1: Product Portfolio Analysis
- 5.2: Geographical Reach
- 5.3: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

- 6.1: Growth Opportunity Analysis
 - 6.1.1: Growth Opportunities for the Global Shortwave Infrared Market by End Use Industry
 - 6.1.2: Growth Opportunities for the Global Shortwave Infrared Market by Material
 - 6.1.3: Growth Opportunities for the Global Shortwave Infrared Market by Scanning Type
 - 6.1.4: Growth Opportunities for the Global Shortwave Infrared Market by Technology
 - 6.1.5: Growth Opportunities for the Global Shortwave Infrared Market by Application
 - 6.1.6: Growth Opportunities for the Global Shortwave Infrared Market by Vertical
 - 6.1.7: Growth Opportunities for the Global Shortwave Infrared Market by Region
- 6.2: Emerging Trends in the Global Shortwave Infrared Market
- 6.3: Strategic Analysis
 - 6.3.1: New Product Development

6.3.2: Capacity Expansion of the Global Shortwave Infrared Market

6.3.3: Technology Development

6.3.4: Mergers and Acquisitions in the Global Shortwave Infrared Industry

7. COMPANY PROFILES OF LEADING PLAYERS

7.1: Collins Aerospace

7.2: FLIR Systems

7.3: Xenics NV

7.4: New Imaging Technologies

7.5: Allied Vision Technologies

7.6: Sensors Unlimited (United Technologies Company)

7.7: Princeton Instruments

7.8: Hamamatsu Photonics K.K

7.9: Sofradir Group

7.10: Raptor Photonics

I would like to order

Product name: Shortwave Infrared (SWIR) Market Report: Trends, Forecast and Competitive Analysis

Product link: <https://marketpublishers.com/r/S25A63935682EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S25A63935682EN.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