

Mid-Wave Infrared (MWIR) Sensors Market

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- Enterprisewide Price \$7250.00

Report description:

Mid-Wave Infrared (MWIR) Sensors Market

Market Overview

Mid-Wave Infrared (MWIR) Sensors Market is projected to register a significant CAGR of 11.1% during the forecast period. Middle Wave cameras are used to detect gas leaks, which are sometimes completely invisible to the naked eye. The wavelength scope of 3.0 - 5.0 m is regularly used to portray MWIR. Due to the solid range assimilation of the climate here, the MWIR wave band is totally futile for warm imaging. The electromagnetic range is regularly separated in the warm imaging area considering the reaction of different IR finders. Hot tufts can be recognized through mid-wavelength infrared (MWIR) location.

Photodetectors, sensors, and imagers working in the MWIR range are acquiring fame because of their significance in a great many applications, including modern cycles, nature observing, free-space correspondence, imaging frameworks, and light location and running frameworks. Gas species focus estimation is basic in numerous areas of present-day life.

Medium-wave infrared warm cameras, some of the time known as cooled warm cameras, can recognize little focuses at significant stretches, making them ideal for long-range applications in harsh weather conditions. The medium-wave infrared (MWIR) band of the electromagnetic range gets infrared light in the 3 to 5-micrometer medium-wave infrared (LWIR) range.

Market Segmentation

In this study, the global market for mid-wave infrared (MWIR) sensors has been divided into two types depending on the type of cooled MWIR sensors and high operating temperature (HOT) MWIR sensors.

In this study, the market for mid-wave infrared (MWIR) sensors has been divided into two categories based on application: commercial and aerospace & defense. The commercial section was further divided into the following categories: industrial inspections, non-destructive testing, gas leak detections, semiconductor inspections, and others. Miniature Payloads, Surveillance Cameras, Enhanced Flight Vision Systems (EFVS), Unmanned Aerial Vehicles (UAV), Missile Warning Systems (MWS), Missile Seekers, and Others are further subdivided within the Aerospace & Defence section.

Regional Analysis

North America is supposed to have a huge share of the Mid-Wave Infrared (MWIR) Sensors Market during the projected period. North America incorporates US, Canada, and Mexico. In 2021, the North American MWIR sensors market represented the greatest

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income share. The region's market is encountering income development in light of developing applications for reconnaissance and security, as well with respect to detecting movement, especially in the business, private, and guard areas. The presence of a few producers nearby and ascending high-esteem interests in Research and development projects are both fundamentally helping the North American market's income development. Besides, the reception of infrared sensors for automated flying vehicles and robots is probably going to drive market development in the European region. The US is at the front of UAV improvement and controls the general market. Lately, the US Branch of Transportation (Spot) has focused on the leeway of UAVs (UAVs) for business utilizes. AeroVironment Inc., Boeing, and Uber Innovations Inc. are totally situated in the nation and are essentially taking part in the UAV business.

Major Players

These include SemiConductor Devices, Teledyne FLIR LLC, Lynred, Leonardo S.p.A., GSTIR, Silent Sentinel, Ascendent Technology Group, Excelitas Technologies Corp., Opto Engineering, New Infrared Technologies (NIT), L3Harris Technologies, Inc., Sierra-Olympia Tech., InfraTec GmbH, Xenics NV, and Tech Imaging Services.

Table of Contents:

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY

1.1. MARKET ATTRACTIVENESS ANALYSIS

1.1.1. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET, BY TYPE

1.1.2. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET, BY APPLICATION

1.1.3. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET, BY REGION

2. MARKET INTRODUCTION

2.1. DEFINITION

2.2. SCOPE OF THE STUDY

2.3. MARKET STRUCTURE

2.4. KEY BUYING CRITERIA

2.5. MACRO FACTOR INDICATOR ANALYSIS

3. RESEARCH METHODOLOGY

3.1. RESEARCH PROCESS

3.2. PRIMARY RESEARCH

3.3. SECONDARY RESEARCH

3.4. MARKET SIZE ESTIMATION

3.5. FORECAST MODEL

3.6. LIST OF ASSUMPTIONS

4. MARKET DYNAMICS

4.1. INTRODUCTION

4.2. DRIVERS

4.2.1. MWIR (MID-WAVE INFRARED) COOLED THERMAL IMAGING SURVEILLANCE LONGER RANGE THAN LWIR (LONG-WAVE INFRARED)

4.2.2. ADVANCEMENT IN TECHNOLOGY SUCH AS TURBULENCE MITIGATION, AND ARTIFICIAL INTELLIGENCE (AI)

4.2.3. GROWING DEMAND FOR HIGH-EFFICIENCY MWIR SENSORS FOR GAS MONITORING APPLICATIONS

4.2.4. DRIVERS IMPACT ANALYSIS

4.3. RESTRAINTS

4.3.1. HIGH COSTS ASSOCIATED WITH MWIR COOLED THERMAL CAMERAS THAN UNCOOLED LWIR CAMERAS

4.3.2. RESTRAINTS IMPACT ANALYSIS

4.4. OPPORTUNITIES

4.4.1. HIGH PERFORMANCE MWIR FOR DEPLOYMENT ON UNMANNED AERIAL VEHICLES (UAV)

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- 4.4.2. OPTICAL FILTERS BENEFITS FOR MWIR
- 4.4.3. CRYOCOOLED INFRARED SYSTEMS
- 4.5. IMPACT OF COVID-19
 - 4.5.1. IMPACT ON SEMICONDUCTOR COMPONENT MANUFACTURERS
 - 4.5.2. IMPACT ON MWIR SENSORS
 - 4.5.3. COVID-19 IMPACT PRODUCT MANUFACTURERS
 - 4.5.4. IMPACT ON SUPPLY CHAIN DELAY
- 5. MARKET FACTOR ANALYSIS
 - 5.1. VALUE CHAIN ANALYSIS/SUPPLY CHAIN ANALYSIS
 - 5.2. PORTER'S FIVE FORCES MODEL
 - 5.3. BARGAINING POWER OF SUPPLIERS
 - 5.4. BARGAINING POWER OF BUYERS
 - 5.5. THREAT OF NEW ENTRANTS
 - 5.6. THREAT OF SUBSTITUTES
 - 5.7. INTENSITY OF RIVALRY
- 6. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET, BY TYPE
 - 6.1. INTRODUCTION
 - 6.2. COOLED MID-WAVE INFRARED (MWIR) SENSORS
 - 6.3. HIGH OPERATING TEMPERATURE (HOT) MID-WAVE INFRARED (MWIR) SENSORS
 - 6.3.1. XBN (INASSB)
 - 6.3.2. NBN
 - 6.3.3. SLS (STRAINED-LAYER SUPERLATTICE)
 - 6.3.4. LEAD SELENICE (PBSE)
- 7. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET, BY APPLICATION
 - 7.1. INTRODUCTION
 - 7.2. AEROSPACE & DEFENSE
 - 7.2.1. MINIATURE PAYLOADS
 - 7.2.2. SURVEILLANCE CAMERAS
 - 7.2.3. ENHANCED FLIGHT VISION SYSTEMS (EFVS)
 - 7.2.4. UNMANNED AERIAL VEHICLE (UAV)
 - 7.2.5. MISSILE WARNING SYSTEMS (MWS)
 - 7.2.6. MISSILE SEEKERS
 - 7.2.7. OTHERS
 - 7.3. COMMERCIAL
 - 7.3.1. SEMICONDUCTOR INSPECTIONS
 - 7.3.2. INDUSTRIAL INSPECTIONS
 - 7.3.3. NON-DESTRUCTIVE TESTING
 - 7.3.4. GAS LEAK DETECTIONS
 - 7.3.5. OTHERS
- 8. GLOBAL MID-WAVE INFRARED (MWIR) SENSORS MARKET SIZE ESTIMATION & FORECAST, BY REGION
 - 8.1. INTRODUCTION
 - 8.2. NORTH AMERICA
 - 8.2.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2018-2030
 - 8.2.2. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
 - 8.2.3. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
 - 8.2.4. US
 - 8.2.5. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030

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- 8.2.6. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.2.7. CANADA
- 8.2.8. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.2.9. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.2.10. MEXICO
- 8.2.11. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.2.12. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.3. EUROPE
- 8.3.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2018-2030
- 8.3.2. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.3.3. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.3.4. UK
- 8.3.4.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.3.4.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.3.5. GERMANY
- 8.3.5.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.3.5.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.3.6. FRANCE
- 8.3.6.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.3.6.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.3.7. REST OF EUROPE
- 8.3.7.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.3.7.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.4. ASIA-PACIFIC
- 8.4.1. MARKET ESTIMATES & FORECAST, BY COUNTRY, 2018-2030
- 8.4.2. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.4.3. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.4.4. CHINA
- 8.4.4.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.4.4.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.4.5. JAPAN
- 8.4.5.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.4.5.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.4.6. INDIA
- 8.4.6.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.4.6.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.4.7. REST OF ASIA-PACIFIC
- 8.4.7.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.4.7.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.5. MIDDLE EAST & AFRICA
- 8.5.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.5.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 8.6. SOUTH AMERICA
- 8.6.1. MARKET ESTIMATES & FORECAST, BY TYPE, 2018-2030
- 8.6.2. MARKET ESTIMATES & FORECAST, BY APPLICATION, 2018-2030
- 9. COMPETITIVE LANDSCAPE
- 9.1. INTRODUCTION

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- 9.2. KEY DEVELOPMENTS & GROWTH STRATEGIES
- 9.3. COMPETITOR BENCHMARKING
- 9.4. VENDOR SHARE ANALYSIS, 2021(% SHARE)
- 10. COMPANY PROFILES
 - 10.1. SEMICONDUCTOR DEVICES
 - 10.1.1. COMPANY OVERVIEW
 - 10.1.2. FINANCIAL OVERVIEW
 - 10.1.3. SOLUTION/SERVICES OFFERED
 - 10.1.4. KEY DEVELOPMENTS
 - 10.1.5. SWOT ANALYSIS
 - 10.1.6. KEY STRATEGIES
 - 10.2. TELEDYNE FLIR LLC
 - 10.3. LYNRED
 - 10.4. LEONARDO S.P.A.
 - 10.5. GSTIR
 - 10.6. SILENT SENTINEL
 - 10.7. ASCENDENT TECHNOLOGY GROUP
 - 10.8. EXCELITAS TECHNOLOGIES CORP.
 - 10.9. OPTO ENGINEERING
 - 10.10. NEW INFRARED TECHNOLOGIES (NIT)
 - 10.11. L3HARRIS TECHNOLOGIES, INC.
 - 10.12. SIERRA-OLYMPIA TECH.
 - 10.13. INFRATEC GMBH
 - 10.14. XENICS NV
 - 10.15. TECH IMAGING SERVICES.

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