

Global Short Wavelength Infra-Red (SWIR) Sensors Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/SEC3404810A6EN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: SEC3404810A6EN

Abstracts

Market Overview

According to DIRResearch's in-depth investigation and research, the global Short Wavelength Infra-Red (SWIR) Sensors market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Short Wavelength Infra-Red (SWIR) Sensors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Short Wavelength Infra-Red (SWIR) sensors are advanced imaging devices designed to detect and capture light in the SWIR spectrum, typically ranging from 0.9 to 2.5 microns. Unlike visible light sensors, SWIR sensors can penetrate through certain materials like smoke, fog, and plastics, providing clear imaging under challenging conditions. They are widely used in applications requiring detailed material differentiation and enhanced visibility, such as industrial inspection, environmental monitoring, surveillance, and medical imaging. SWIR sensors operate using reflected light, much like visible light cameras, making them ideal for identifying objects and surface features that are otherwise invisible to the human eye. Their ability to detect subtle differences in material composition and temperature makes SWIR sensors invaluable in industries like semiconductors, agriculture, and defense.

The major global manufacturers of Short Wavelength Infra-Red (SWIR) Sensors include Sony, Edmund Optics, SWIR Vision Systems, Teledyne Technologies, Rafael

Advanced Defense Systems Ltd, Xenics, Hamamatsu Photonics, Axiom Optics, Pembroke Instruments, Ghopto, FLIR Systems, Allied Vision, Corning Inc., etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Short Wavelength Infra-Red (SWIR) Sensors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Short Wavelength Infra-Red (SWIR) Sensors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Short Wavelength Infra-Red (SWIR) Sensors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Short Wavelength Infra-Red (SWIR) Sensors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Short Wavelength Infra-Red (SWIR) Sensors Include:

Sony

Edmund Optics

SWIR Vision Systems

Teledyne Technologies

Rafael Advanced Defense Systems Ltd

Xenics

Hamamatsu Photonics

Axiom Optics

Pembroke Instruments

Ghopto

FLIR Systems

Allied Vision

Corning Inc.

Short Wavelength Infra-Red (SWIR) Sensors Product Segment Include:

Line-scan

Area-scan

Short Wavelength Infra-Red (SWIR) Sensors Product Application Include:

Small Animal Imaging

National Defense & Security

Semiconductor & Solar Cell Inspection

Laser Welding/Laser Additive Manufacturing

Laser Beam Profiling

Astronomy

Carbon Nanotubes Imaging

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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