

South America SWIR Market By Material Type (Indium Gallium Arsenide, Mercury cadmium Telluride, Indium Antimonide and Lead Sulfide), By Application and By Industry Type - Analysis and Forecast (2014 - 2019)

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Abstracts

The South American Short Wave Infrared (SWIR) market is estimated to register a CAGR of 8.5% during the forecast period. Earlier, SWIR detectors were mainly produced for military and defense markets; however, this technology is now used in various commercial applications as well, such as temperature measurement, fire & gas detection, biomedical imaging, spectroscopy, semiconductor/ wafer inspection, and motion detection.

Based on the material by which they are formed, the SWIR market is segmented into indium gallium arsenide (InGaAs), mercury cadmium telluride, lead sulfide, and indium antimonide. All these materials can operate in the spectral range of SWIR (0.9 μm to 3 μm) with great efficiency. Mercury cadmium telluride is a direct bandgap semiconductor, which is used for the production of low cost and large area IR FPAs. Indium antimonide is a narrow band-gap semiconductor material, which is utilized as a part of infrared detectors, including warm imaging cameras, as they can detect the presence of IR radiation by its photoconductive properties. Lead sulfide is one of the most established and readily available component materials in various infrared sensors, which is utilized to measure radiation. The high dielectric constant of lead sulfide makes it a less reliable sensor compared to other emerging technologies.

The South American SWIR market was dominated by Brazil, which accounted for the highest market share, followed by Argentina. The South American SWIR market is steadily progressing due to a continuous reduction in the price of SWIR detectors and an increasing in the usage of these detectors in fast-growing applications, such as

medical imaging and vision enhancement. SWIR is one of the largest segments utilized in the sSemiconductor industry, accounting for the largest share of 41% of the SA SWIR market among all application industriesmarket share.

The South American SWIR market is competitive. Various companies, such as DRS Technologies (U.S.), FLIR Systems (U.S.), Sensors Unlimited (U.S.), Excelitas Technologies (U.S.), and ULIS (France), are continuously strategizing to accelerate their cutting edge technological capabilities, R&D capabilities, and innovation to strengthen their competitiveness in the global market. This is successfully achieved with the assistance of numerous market strategies adopted by these companies, including focusing on new product development, alliances, and acquisitions to expand their presence, portfolio, and market share. Apart from these companies, companies including Vigo Systems (Poland), Sensors Unlimited (U.S.), Opto Engineering (Italy), and Raptor photonics Ltd. (Ireland) are also expected to strengthen their market position through product approvals, alliances, and agreements.

Customization Options:

Along with the market data, you can also customize the MMM assessments that are in accordance to your company's specific needs. Customize to get comprehensive industry standard and deep-dive analysis of the following parameters:

Product Analysis

Usage pattern (in-depth trend analysis) of products (segment-wise)

Product matrix, which gives a detailed comparison of product portfolio of each company, mapped at country and sub-segment level

End-user adoption rate analysis of the products (segment-wise and country-wise)

Comprehensive coverage of product approvals, pipeline products, and product recalls

Data from Manufacturing Firms

Fast turn-around analysis of responses from manufacturing firms regarding

recent market events and trends

Opinions from various firms regarding different applications where SWIR devices can be used

Qualitative inputs on macro-economic indicators, mergers & acquisitions in each region/country

Comparative Analysis

Market data and key developments of top companies

Shipment/Volume Data

Tracking the value of components shipped annually in each region/country

Trend Analysis of Applications

Application matrix, which gives a detailed comparison of application portfolio of each company, mapped in each region/country

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