

Global Shortwave Infrared (SWIR) Market Size study, by Offering (Hardware, Software, Service), by Material (Indium Gallium Arsenide, Indium Antimonide, Lead Sulfide, Mercury Cadmium Telluride), by Application (Security & Surveillance, Monitoring & Inspection, Detection) and Regional Forecasts 2022-2028

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Abstracts

Global Shortwave Infrared (SWIR) Market is valued at approximately USD xxx billion in 2021 and is anticipated to grow with a healthy growth rate of more than xxx % over the forecast period 2022-2028. Shortwave Infrared is a subset of the infrared band in the electromagnetic spectrum, covering the wavelengths ranging from 1.4 to 3 microns. This wavelength is not visible to human eyes and as a result, can often offer a better image than what is achievable with visible light imaging. The increase in penetration of SWIR cameras in military & defense vertical has led to the adoption of Shortwave Infrared across the forecast period. For Instance: the ability of SWIR cameras to see through windshields of vehicles unlike longwave infrared (LWIR) and mediumwave (MWIR) infrared cameras during both day and night, as well as their capability to identify and differentiate between explosive and nonexplosive objects widen the applications of SWIR cameras for the special-operation military vehicles. Also, increasing use in the medical sector will enhance the market share of Shortwave Infrared. The rise in demand for SWIR cameras for use in new applications is likely to increase the market growth during the forecast period. However, stringent regulations related to the import and export of SWIR cameras and high manufacturing costs impede the growth of the market over the forecast period of 2022-2028.

The key regions considered for the Global Shortwave Infrared (SWIR) Market study include Asia Pacific, North America, Europe, Latin America and Rest of the World. North

America is the leading region across the world in terms of market share owing to the presence of prominent military and defense players which are generating demand for SWIR cameras. Whereas, Asia-Pacific is also anticipated to exhibit the highest growth rate over the forecast period 2022-2028. Factors such as rising disposable income would create lucrative growth prospects for the Global Shortwave Infrared (SWIR) Market across Asia-Pacific region.

Major market players included in this report are:

Collins Aerospace (US)

Teledyne FLIR (US)

Xenics (Belgium)

New Imaging Technologies (France)

Allied Vision Technologies (Germany)

Raptor Photonics (UK)

Lynred (France)

Opgal Optronics (Israel)

Photon etc. (Canada)

Hamamatsu Photonics (Japan)

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Offering:

Hardware

Software

Service

By Material:

Indium Gallium Arsenide

Indium Antimonide

Lead Sulfide

Mercury Cadmium Telluride

By Application:

Security & Surveillance
Monitoring & Inspection
Detection

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Shortwave Infrared (SWIR) Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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