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Global Infrared Machine Vision Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Infrared Machine Vision market size is predicted to grow from US$ 553 million in 2025 to US$ 1035 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

Infrared machine vision refers to the use of infrared imaging technologies—such as NIR, SWIR, MWIR, or thermal imaging—to enable automated visual inspection, detection, measurement, and monitoring under conditions where visible-light cameras cannot operate effectively. It is widely used for tasks involving heat distribution analysis, material penetration, defect identification, and low-light or no-light environments.

Upstream mainly includes infrared sensors, infrared detectors (InGaAs, VOx, HgCdTe), optical lenses, specialized light sources, and semiconductor processing materials, which form the technical foundation of infrared imaging. Midstream consists of infrared camera manufacturers, machine vision solution providers, and system integrators who assemble complete imaging systems. Downstream applications expand across industrial inspection, semiconductor manufacturing, automotive electronics, security surveillance, food sorting, and medical diagnostics, forming a diversified demand landscape.

United States market for Infrared Machine Vision is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Infrared Machine Vision is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Infrared Machine Vision is estimated to increase from US$ million in

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2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Infrared Machine Vision players cover Teledyne, Allied Vision Technologies GmbH, SWIR Vision Systems, Basler AG, Sierra-Olympia Tech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LPI (LP Information)' newest research report, the “Infrared Machine Vision Industry Forecast” looks at past sales and reviews total world Infrared Machine Vision sales in 2025, providing a comprehensive analysis by region and market sector of projected Infrared Machine Vision sales for 2026 through 2032. With Infrared Machine Vision sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Infrared Machine Vision industry.

This Insight Report provides a comprehensive analysis of the global Infrared Machine Vision landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Infrared Machine Vision portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Infrared Machine Vision market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Machine Vision and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Infrared Machine Vision.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Machine Vision market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Equipment

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Solution

Segmentation by Spectral Band:

Near-Infrared (NIR)

Short-Wave Infrared (SWIR)

Segmentation by Imaging Mechanism:

Thermal Imaging

Active Infrared Imaging

Segmentation by System Composition:

Infrared Cameras

Infrared Machine Vision Systems

Segmentation by Application:

Industrial Inspection

Quality Control

Medical

Environmental Monitoring

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Teledyne

Allied Vision Technologies GmbH

SWIR Vision Systems

Basler AG

Sierra-Olympia Tech

LUCID Vision Labs Inc.

JAI

SVS-Vistek

New Imaging Technologies

Balluff Inc

Photon

First Light Imaging

ProPhotonix

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