

Global Near Infrared (NIR) Camera Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Near Infrared (NIR) Camera market size was valued at US\$ 1007 million in 2024 and is forecast to a readjusted size of USD 1263 million by 2031 with a CAGR of 3.3% during review period.

Near-infrared light is one kind of electromagnetic waves in the range of visible and infrared light which cannot be perceived by human eyes. Near Infrared (NIR) cameras were developed on the basis of this, they refer to cameras with NIR sensors. Compared with DSC, Near Infrared Industry Camera has stable and reliable performance, is easy to install. Because of its Compact, rugged structural features, Near NIR Camera is difficult to damage. Thus, it can be used in poor environment and continue working for a long time. Near Infrared Cameras shutter time is very short, it can capture high-speed moving objects. Industrial camera can shoot ten to hundreds of pictures per second, while an ordinary camera can only take 2-3 images, there is a large difference between them. Output of Near-Infrared Camera is raw data, which has relatively wide spectral range, and is more suitable for high-quality image processing algorithms, such as machine vision applications, while ordinary camera image, which is only suitable for the spectral range of human vision, and after jpeg compression, image quality is poor, is not conducive to analysis and processing. Owing to the excellent performance of NIR Camera, it has been widely used in many fields, such as detection, transportation, and scientific medical.

NIR cameras can be standalone devices or integrated into other imaging systems such as smartphones or drones. They provide valuable insights by capturing and analyzing the near-infrared light reflected or emitted by objects, enabling a wide range of applications across various industries.

Global Near IR Camera key players include JAI, FLIR Systems, Allied Vision Technologies, IDS Imaging Development Systems, Basler, etc. Global top five manufacturers hold a share over 55%.

The United States is the largest market, with a share over 35%, followed by Europe and Japan, both have a share over 35% percent. In terms of product, CCD is the largest segment, with a share over 50%. And in terms of application, the largest application is Measurement & Detection, followed by Industry.

This report is a detailed and comprehensive analysis for global Near Infrared (NIR) Camera market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Near Infrared (NIR) Camera market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Near Infrared (NIR) Camera market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Near Infrared (NIR) Camera market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Near Infrared (NIR) Camera market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Near Infrared (NIR) Camera
To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global Near Infrared (NIR) Camera market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include UTC Aerospace Systems - ISR Systems, Weschler Instruments - Div. of Hughes Corp, Roper Scientific, JAI, Vumii Imaging, FJW Optical Systems, HelioWorks, Mid-State Instruments, Infrared Cameras, Near Infrared Imaging, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Near Infrared (NIR) Camera market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Coronagraphic Imaging

Time-series Imaging

Girsm Time Series

Other

Market segment by Application

Industrial Product Inspection

Agricultural Products Testing

Major players covered

UTC Aerospace Systems - ISR Systems

Weschler Instruments - Div. of Hughes Corp

Roper Scientific

JAI

Vumii Imaging

FJW Optical Systems

HelioWorks

Mid-State Instruments

Infrared Cameras

Near Infrared Imaging

Emitted Energy

Indigo Systems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Near Infrared (NIR) Camera product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Near Infrared (NIR) Camera, with price,

sales quantity, revenue, and global market share of Near Infrared (NIR) Camera from 2020 to 2025.

Chapter 3, the Near Infrared (NIR) Camera competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Near Infrared (NIR) Camera breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Near Infrared (NIR) Camera market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Near Infrared (NIR) Camera.

Chapter 14 and 15, to describe Near Infrared (NIR) Camera sales channel, distributors, customers, research findings and conclusion.

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