

Global Near Infrared (NIR) Camera Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

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 IR 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.

According to our (Global Info Research) latest study, the global Near Infrared (NIR) Camera market size was valued at USD 940.8 million in 2022 and is forecast to a readjusted size of USD 1177.1 million by 2029 with a CAGR of 3.3% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 2023, 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), 2018-2029

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), 2018-2029

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), 2018-2029

Global Near Infrared (NIR) Camera market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

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 assess competitive factors affecting the marketplace

This report profiles key players in the global Near Infrared (NIR) Camera market based on the following parameters - company overview, production, value, 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 and Vumii Imaging, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Near Infrared (NIR) Camera market is split by Type and by Application. For the period 2018-2029, 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, revenue and global market share of Near Infrared (NIR) Camera from 2018 to 2023.

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 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Near Infrared (NIR) Camera market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

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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