

Global Particle Image Velocimetry System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Particle Image Velocimetry System market size was valued at US\$ 376 million in 2025 and is forecast to a readjusted size of US\$ 574 million by 2032 with a CAGR of 6.2% during review period.

Particle Image Velocimetry Systems are optical flow-measurement systems used to capture and calculate velocity fields in fluids by tracking tracer particle movement between successive images. A typical system includes pulsed lasers or light sources, optical lenses, high-speed or scientific cameras, synchronization controllers, seeding particle generators, calibration targets, acquisition hardware, and velocity-field analysis software. They are used in wind tunnels, water channels, turbomachinery research, combustion studies, microfluidics, biomedical flow, automotive aerodynamics, aerospace testing, marine hydrodynamics, and industrial fluid-process research. This category excludes laser Doppler velocimetry systems, standalone cameras, standalone lasers, computational fluid dynamics software, and complete wind-tunnel facilities. The industrial chain of Particle Image Velocimetry Systems includes upstream suppliers of pulsed lasers, laser optics, scientific cameras, high-speed cameras, image sensors, timing controllers, lenses, mirrors, light-sheet optics, seeding particles, aerosol generators, calibration plates, data acquisition boards, computing hardware, software modules, safety enclosures, optical tables, cables, power supplies, and precision machined parts. The midstream consists of flow-measurement instrument manufacturers and optical diagnostic system integrators that design and assemble laser illumination modules, camera systems, synchronization units, calibration tools, acquisition platforms, analysis software, safety packages, and customized experimental configurations. Downstream users include universities, research institutes, aerospace

laboratories, automotive test centers, energy equipment companies, marine engineering laboratories, turbomachinery developers, biomedical research groups, microfluidic device developers, and industrial fluid-process engineers.

The Particle Image Velocimetry System market is a high-value scientific and industrial measurement market, not a volume instrumentation market. Demand is supported by aerospace testing, automotive aerodynamics, turbomachinery development, energy equipment research, combustion diagnostics, microfluidics, and biomedical flow studies, where full-field velocity data is more valuable than point measurement. The market is moving toward higher frame rates, three-dimensional measurement, better software automation, easier calibration, and safer laser operation. Buyers are typically technically sophisticated and care less about hardware lists alone; they evaluate measurement accuracy, synchronization stability, image-processing capability, software usability, experiment support, and system reliability. Supplier differentiation depends heavily on application know-how and after-sales engineering, because many projects require experimental design support rather than simple product delivery. Constraints include high purchase cost, limited customer base, laser safety requirements, long research-budget cycles, and competition from simulation or simpler measurement methods. In 2025, global Particle Image Velocimetry System production reached approximately 2.12 thousand units, with an average global market price of around US\$172,000 per unit. The gross profit margin of major companies in the industry ranged from 34% to 52%. In 2025, the global production capacity of Particle Image Velocimetry Systems was approximately 2.83 thousand units.

Report Scope

This report is a detailed and comprehensive analysis for global Particle Image Velocimetry System 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 Particle Image Velocimetry System market size and forecasts, in consumption

value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Particle Image Velocimetry System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Particle Image Velocimetry System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Particle Image Velocimetry System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 Particle Image Velocimetry System

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 Particle Image Velocimetry System 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 LaVision GmbH, Dantec Dynamics A/S, iLA_5150 GmbH, OPTOLUTION Messtechnik GmbH, G.U.N.T. Gerätebau GmbH, AVL Tippelmann GmbH, Armfield Ltd, Measurement Science Enterprise, Inc., SEIKA Digital Image CORPORATION, Flowtech Research Inc., etc.

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

Particle Image Velocimetry System market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Planar Two-Dimensional Two-Component PIV Systems

Planar Three-Component Stereo PIV System

Volumetric Three-Component PIV System

Market segment by Number of Synchronized Measurement Cameras

Single-Camera PIV Systems

Dual-Camera PIV Systems

Three-Camera PIV Systems

PIV Systems with Four or More Cameras

Market segment by Primary Illumination Source Family

Laser-Illuminated PIV System

LED-Illuminated PIV System

Market segment by Maximum Velocity-Field Sampling Rate

Maximum Velocity-Field Sampling Rate Up to 100 Hz

Maximum Velocity-Field Sampling Rate Above 100 Hz and Up to 1 kHz

Maximum Velocity-Field Sampling Rate Above 1 kHz and Up to 10 kHz

Maximum Velocity-Field Sampling Rate Above 10 kHz

Market segment by Application

Aerospace and Defense Aerodynamics Research

Automotive and Ground Transportation Research

Energy and Power Engineering Research

Industrial Fluid Machinery and Process Engineering Research

Civil, Environmental and Hydraulic Engineering Research

Marine and Ocean Engineering Research

Biomedical and Microfluidics Research

General Fluid Mechanics Education and Fundamental Research

Major players covered

LaVision GmbH

Dantec Dynamics A/S

iLA_5150 GmbH

OPTOLUTION Messtechnik GmbH

G.U.N.T. Gerätebau GmbH

AVL Tippelmann GmbH

Armfield Ltd

Measurement Science Enterprise, Inc.

SEIKA Digital Image CORPORATION

Flowtech Research Inc.

Kato Koken Co., Ltd.

Microvec Pte Ltd

Beijing Lifang Tiandi Technology Development Co., Ltd.

HF Agile Device Co., Ltd.

Qingdao Guangliu Software Technology Co., Ltd.

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)

Chapter Outline

Chapter 1, to describe Particle Image Velocimetry System product scope, market

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Particle Image Velocimetry System, with price, sales quantity, revenue, and global market share of Particle Image Velocimetry System from 2021 to 2026.

Chapter 3, the Particle Image Velocimetry System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Particle Image Velocimetry System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Particle Image Velocimetry System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Particle Image Velocimetry System.

Chapter 14 and 15, to describe Particle Image Velocimetry System sales channel, distributors, customers, research findings and conclusion.

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