

# Global Particle Image Velocimetry (PIV) System Market 2026 by Company, 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 (PIV) System market size was valued at US\$ 128 million in 2025 and is forecast to a readjusted size of US\$ 209 million by 2032 with a CAGR of 7.2% during review period.

Particle image velocimetry (PIV) systems mainly consist of a high-frequency laser, a high-speed camera, optical lenses and optical path adjustment components, an image processing unit, and control software. By projecting trackable particles into a fluid and capturing their trajectories using high-speed imaging, they achieve precise measurements of two-dimensional or three-dimensional flow field velocity distribution and vorticity information. They are widely used in aerospace, automotive fluid dynamics, chemical reactor optimization, and microfluidic research. Upstream raw materials primarily include lasers and optical components, high-speed cameras and sensors, electronic processing modules and control systems, and protective and support structures. Downstream supplies mainly come from research institutions, automotive and aerospace R&D centers, energy and chemical companies, and university laboratories. With the continuous increase in demand for fluid dynamics research and engineering optimization, the demand for PIV systems with high precision, fast response, multi-dimensional measurement, and data visualization capabilities is growing significantly. Future development can be achieved by improving laser power and stability, increasing camera frame rate and resolution, integrating intelligent image processing and data analysis platforms, and developing customized measurement solutions to meet the needs of complex experimental environments and engineering applications, thereby expanding market share and enhancing technological competitiveness.

This report is a detailed and comprehensive analysis for global Particle Image Velocimetry (PIV) System market. Both quantitative and qualitative analyses are presented by company, 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 (PIV) System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Particle Image Velocimetry (PIV) System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Particle Image Velocimetry (PIV) System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Particle Image Velocimetry (PIV) System market shares of main players, in revenue (\$ Million), 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 (PIV) 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 (PIV) System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dantec Dynamics, LaVision, TSI, ZHONGKESHIJIE, YEONJIN S-Tech, ILA, PIVTEC, MicroVec, HUACHENHEYI,

Optolution, etc.

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

Market segmentation

Particle Image Velocimetry (PIV) 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Two-dimensional PIV (2D PIV) System

- Two-dimensional Planar Three-component PIV (2D-3C PIV) System

- Three-dimensional PIV (3D PIV / Tomo-PIV) System

Market segment by Laser Type

- Pulsed Nd:YAG Laser Systems

- Continuous Continuous Laser Systems

- High-Energy Pulsed Laser Systems

Market segment by Camera Specifications

- Camera Specifications: ?1,000 fps

- Camera Specifications: 1,000-10,000 fps

- Camera Specifications: >10,000 fps

## Market segment by Application

Aerospace

Automotive

Chemicals

Others

## Market segment by players, this report covers

Dantec Dynamics

LaVision

TSI

ZHONGKESHIJIE

YEONJIN S-Tech

ILA

PIVTEC

MicroVec

HUACHENHEYI

Optolution

SEIKA Digital

LEIBAO

## Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Particle Image Velocimetry (PIV) System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Particle Image Velocimetry (PIV) System, with revenue, gross margin, and global market share of Particle Image Velocimetry (PIV) System from 2021 to 2026.

Chapter 3, the Particle Image Velocimetry (PIV) System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Particle Image Velocimetry (PIV) System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Particle Image Velocimetry (PIV) System.

Chapter 13, to describe Particle Image Velocimetry (PIV) System research findings and

conclusion.

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