

# Global Particle Image Velocimetry System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Particle Image Velocimetry System market size is expected to reach \$ 574 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Particle Image Velocimetry System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Particle Image Velocimetry System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Particle Image Velocimetry System that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Particle Image Velocimetry System total production and demand,  
2021-2032, (Units)

Global Particle Image Velocimetry System total production value, 2021-2032, (USD Million)

Global Particle Image Velocimetry System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Particle Image Velocimetry System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Particle Image Velocimetry System domestic production, consumption, key domestic manufacturers and share

Global Particle Image Velocimetry System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Particle Image Velocimetry System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Particle Image Velocimetry System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Particle Image Velocimetry System 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Particle Image Velocimetry System market

## Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

## Global Particle Image Velocimetry System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Market Segmentation

### Global Particle Image Velocimetry System Market, Segmentation by Type:

Planar Two-Dimensional Two-Component PIV Systems

Planar Three-Component Stereo PIV System

Volumetric Three-Component PIV System

## **Global Particle Image Velocimetry System Market, Segmentation 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

## **Global Particle Image Velocimetry System Market, Segmentation by Primary Illumination Source Family:**

Laser-Illuminated PIV System

LED-Illuminated PIV System

## **Global Particle Image Velocimetry System Market, Segmentation 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

## **Global Particle Image Velocimetry System Market, Segmentation 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

## **Companies Profiled:**

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.

## **Key Questions Answered:**

1. How big is the global Particle Image Velocimetry System market?
2. What is the demand of the global Particle Image Velocimetry System market?
3. What is the year over year growth of the global Particle Image Velocimetry System market?
4. What is the production and production value of the global Particle Image Velocimetry System market?
5. Who are the key producers in the global Particle Image Velocimetry System market?
6. What are the growth factors driving the market demand?

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