

Global Particle Image Velocimetry (PIV) System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Particle Image Velocimetry (PIV) System market size is expected to reach \$ 209 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

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 studies the global Particle Image Velocimetry (PIV) System demand, key

companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Particle Image Velocimetry (PIV) 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 (PIV) System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Particle Image Velocimetry (PIV) System total market, 2021-2032, (USD Million)

Global Particle Image Velocimetry (PIV) System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Particle Image Velocimetry (PIV) System total market, key domestic companies, and share, (USD Million)

Global Particle Image Velocimetry (PIV) System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Particle Image Velocimetry (PIV) System total market by Type, CAGR, 2021-2032, (USD Million)

Global Particle Image Velocimetry (PIV) System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 (PIV) System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Particle Image Velocimetry (PIV) System Market, Segmentation 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

Global Particle Image Velocimetry (PIV) System Market, Segmentation by Laser Type:

Pulsed Nd:YAG Laser Systems

Continuous Continuous Laser Systems

High-Energy Pulsed Laser Systems

Global Particle Image Velocimetry (PIV) System Market, Segmentation by Camera Specifications:

Camera Specifications: ?1,000 fps

Camera Specifications: 1,000-10,000 fps

Camera Specifications: >10,000 fps

Global Particle Image Velocimetry (PIV) System Market, Segmentation by Application:

Aerospace

Automotive

Chemicals

Others

Companies Profiled:

Dantec Dynamics

LaVision

TSI

ZHONGKESHIJIE

YEONJIN S-Tech

ILA

PIVTEC

MicroVec

HUACHENHEYI

Optolution

SEIKA Digital

LEIBAO

Key Questions Answered

1. How big is the global Particle Image Velocimetry (PIV) System market?
2. What is the demand of the global Particle Image Velocimetry (PIV) System market?
3. What is the year over year growth of the global Particle Image Velocimetry (PIV) System market?
4. What is the total value of the global Particle Image Velocimetry (PIV) System market?
5. Who are the Major Players in the global Particle Image Velocimetry (PIV) System market?
6. What are the growth factors driving the market demand?

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