

Global Particle Image Velocimetry (PIV) System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Particle Image Velocimetry (PIV) System market size is predicted to grow from US\$ 122 million in 2025 to US\$ 203 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 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.

United States market for Particle Image Velocimetry (PIV) System is estimated to

increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Particle Image Velocimetry (PIV) System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Particle Image Velocimetry (PIV) System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Particle Image Velocimetry (PIV) System players cover Dantec Dynamics, LaVision, TSI, ZHONGKESHIJIE, YEONJIN S-Tech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Particle Image Velocimetry (PIV) System Industry Forecast" looks at past sales and reviews total world Particle Image Velocimetry (PIV) System sales in 2025, providing a comprehensive analysis by region and market sector of projected Particle Image Velocimetry (PIV) System sales for 2026 through 2032. With Particle Image Velocimetry (PIV) System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Particle Image Velocimetry (PIV) System industry.

This Insight Report provides a comprehensive analysis of the global Particle Image Velocimetry (PIV) System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Particle Image Velocimetry (PIV) System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Particle Image Velocimetry (PIV) System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Particle Image Velocimetry (PIV) System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Particle Image Velocimetry (PIV) System.

This report presents a comprehensive overview, market shares, and growth opportunities of Particle Image Velocimetry (PIV) System market by product type, application, key players and key regions and countries.

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

Segmentation by Laser Type:

Pulsed Nd:YAG Laser Systems

Continuous Continuous Laser Systems

High-Energy Pulsed Laser Systems

Segmentation by Camera Specifications:

Camera Specifications: ?1,000 fps

Camera Specifications: 1,000-10,000 fps

Camera Specifications: >10,000 fps

Segmentation by Application:

Aerospace

Automotive

Chemicals

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Dantec Dynamics

LaVision

TSI

ZHONGKESHIJIE

YEONJIN S-Tech

ILA

PIVTEC

MicroVec

HUACHENHEYI

Optolution

SEIKA Digital

LEIBAO

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