

Global Data Acquisition Device Market Growth 2026-2032

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Abstracts

The global Data Acquisition Device market size is predicted to grow from US\$ 1609 million in 2025 to US\$ 2322 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Data acquisition workstations are systematic platforms integrating acquisition hardware, signal conditioning, time synchronization, edge computing, and data management software. They are used to acquire and store multi-channel sensor signals or industrial field signals in a traceable manner and perform real-time monitoring and analysis. Typical applications cover laboratory testing, production line process monitoring, equipment status diagnosis, and field engineering experiments. Based on the pace of industrial digitalization investment, the demand for automated testing systems, and the need for scientific research equipment upgrades, it is estimated that global sales of data acquisition workstations will reach approximately 128,000 units in 2025, with an average unit price of approximately US\$12,850, a capacity utilization rate of approximately 76.4%, and an industry gross profit margin of approximately 29% to 44%. Upstream companies mainly come from the fields of data acquisition boards and analog-to-digital conversion chips, sensors and signal conditioning modules, industrial computers and storage devices, clock synchronization and communication modules, chassis power supplies, and connector cables. Downstream companies mainly come from automated testing system integrators, process and quality departments of manufacturing enterprises, energy and chemical field operation and maintenance departments, rail transit and aerospace testing teams, research institutes and university laboratories, and third-party testing institutions. In the product cost structure, acquisition hardware and signal conditioning account for approximately 36%, industrial computing and storage for approximately 22%, sensors and cable connections for approximately 14%, software licensing and data platforms for approximately 12%, assembly, testing and calibration

for approximately 10%, and quality assurance, maintenance and logistics for approximately 6%. Products can be categorized by parameters into standard rate, high-speed, and ultra-high-speed types based on sampling performance; few-channel, medium-channel, and high-channel-density types based on channel size; general-purpose computer, embedded integrated, and modular chassis types based on system form; and laboratory, industrial ruggedized, and outdoor portable types based on environmental adaptability. On the demand side, the downstream demand list includes equipment condition monitoring and predictive maintenance, production line quality traceability and process control, vibration acoustics and strain testing, power electronics and electric drive bench testing, environmental and energy consumption monitoring, reliability and life testing, and on-site engineering data recording. The downstream customer list includes automotive and new energy manufacturing companies, semiconductor and electronics manufacturing plants, chemical and energy companies, rail transportation and aerospace units, automation system integrators, third-party testing and certification institutions, and university research laboratories. In terms of business opportunities, policy drivers are reflected in the advancement of the Industrial Internet and intelligent manufacturing, the increased requirements for safety and compliance monitoring of key equipment, and the strengthening of data element and energy efficiency management-related standards. Technological innovation drivers are focused on higher-precision synchronous acquisition, lower-noise front-ends and highly integrated channels, edge-side intelligent analysis and event-triggered compression, and enhanced interconnection capabilities with mainstream industrial protocols and cloud platforms. Changes in consumer demands are reflected in users paying more attention to convenient deployment, long-term stable operation, data traceability and visualization, and total cost of ownership optimization, thereby driving data acquisition workstations to iterate towards modularization, platformization, and software definition and expanding their penetration in existing infrastructure upgrades.

Data acquisition workstations are evolving from simple data recording tools into comprehensive platforms integrating data acquisition, analysis, and edge decision-making. Market demand is increasingly driven by industrial digital transformation and refined equipment management. As manufacturing enterprises place greater emphasis on process traceability, quality consistency, and equipment reliability, the penetration rate of data acquisition workstations in production line monitoring, condition diagnosis, and testing continues to rise. Market competition is shifting from hardware performance to system stability, software usability, and compatibility with existing industrial systems, driving product development towards modularization and platformization. Overall, demand for data acquisition workstations maintains steady growth, with future opportunities primarily concentrated in high-channel density, high synchronization

accuracy, and solutions for upgrading existing equipment and customized industry applications.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Acquisition Device 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 Data Acquisition Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Acquisition Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vertical Workstation

Horizontal Workstation

Segmentation by Modular Type:

Modular Data Acquisition Workstation

Non Modular Data Acquisition Workstation

Segmentation by Shape:

Portable

Fixed Type

Segmentation by Application:

Industrial Control

Big Data and Cloud Computing

Environmental Monitoring

Other

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 analysing the company's coverage, product portfolio, its market penetration.

HP

Power Test

NI

Yokogawa

Red Lion

Keysight

Hangzhou Haiyida Technology

DATAQ Instruments

Siemens

Phoenix

Advantech

ADLINK Technology, Inc.

Axiometrix

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Acquisition Device market?

What factors are driving Data Acquisition Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Acquisition Device market opportunities vary by end market size?

How does Data Acquisition Device break out by Type, by Application?

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