

Global Data Acquisition Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Acquisition Device market size is expected to reach \$ 2399 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032). 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.

This report studies the global Data Acquisition Device production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Acquisition Device 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 Data Acquisition Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Acquisition Device total production and demand, 2021-2032, (K Units)

Global Data Acquisition Device total production value, 2021-2032, (USD Million)

Global Data Acquisition Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Acquisition Device consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Data Acquisition Device domestic production, consumption, key domestic manufacturers and share

Global Data Acquisition Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Acquisition Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Acquisition Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Acquisition Device 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 HP, Power Test, NI, Yokogawa, Red Lion, Keysight, Hangzhou Haiyida Technology, DATAQ Instruments, Siemens, Phoenix, 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 Data Acquisition Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (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 Data Acquisition Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Acquisition Device Market, Segmentation by Type:

Vertical Workstation

Horizontal Workstation

Global Data Acquisition Device Market, Segmentation by Modular Type:

Modular Data Acquisition Workstation

Non Modular Data Acquisition Workstation

Global Data Acquisition Device Market, Segmentation by Shape:

Portable

Fixed Type

Global Data Acquisition Device Market, Segmentation by Application:

Industrial Control

Big Data and Cloud Computing

Environmental Monitoring

Other

Companies Profiled:

HP

Power Test

NI

Yokogawa

Red Lion

Keysight

Hangzhou Haiyida Technology

DATAQ Instruments

Siemens

Phoenix

Advantech

ADLINK Technology, Inc.

Axiometrix

Key Questions Answered:

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

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