

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

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Abstracts

The global Data Acquisition Instrument market size is expected to reach \$ 4306 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

A data acquisition device is an electronic device that can automatically collect, store, and transmit analog or digital signals. It converts continuous signals from the physical world (such as voltage, current, resistance) into computer recognizable discrete data by connecting sensors (such as temperature, pressure, flow, vibration sensors) or smart meters. In the fields of industrial automation and environmental monitoring, data acquisition devices are often used as on-site equipment, responsible for real-time collection of pollution source emission concentrations, equipment operating parameters (such as fan current, purification facility start stop status), and other data. The encrypted and packaged data is uploaded to higher-level monitoring platforms (such as environmental protection departments and enterprise DCS systems) through communication methods such as 4G/5G, Ethernet, or RS485. Its core value lies in solving the data access problem of the 'last mile', ensuring that raw data is not manually tampered with and directly reaches the regulatory center. It is a key hardware support for remote monitoring, over limit alarm, and process tracing.

The data acquisition instrument (data collector) industry chain covers core component suppliers such as upstream sensors and measuring components, data acquisition chips and embedded processors, communication modules, memory and power protection structural components, midstream data acquisition instrument R&D and integration manufacturers, as well as downstream terminal application fields such as industrial automation, environmental monitoring, energy and power, transportation infrastructure, scientific research and testing. Regarding gross profit margin, the industry presents a

significant 'hardware layering+software/service uplift' structure: low-end single channel or small channel recorders, mainly focused on hardware sales, typically have gross profit margins between 20% and 35% due to fierce market competition and price transparency; Mid end multi-channel data acquisition devices bring product premiums due to channel isolation, accuracy, and reliability, with gross profit margins mostly ranging from 30% to 45%; If high-end modular DAQ systems can be combined with professional software licensing, data management platforms, calibration and maintenance, and long-term project services, the overall project gross profit margin can further reach 40% -60%.

The average price of data acquisition devices in 2025 is \$10 k per unit, with sales of 191 k units and a total production capacity of 273 k units.

The data acquisition device has been upgraded from a simple 'data mover' to a 'smart gateway' that connects the physical world and the digital world, and is an indispensable perception layer cornerstone for achieving Industry 4.0 and smart environmental protection. Its value is no longer limited to the traditional data reading and forwarding, but lies in the use of edge computing capabilities to complete real-time signal calibration, exception removal, compression encryption and logical judgment on the spot, thus greatly reducing the computing pressure of the cloud platform and improving the response speed. In the field of environmental protection, data collectors are the core link in building the 'off-site supervision' mode. By ensuring that the original data is transmitted multiple times and cannot be tampered with, they solve the problems of low data credibility and low cost of fraud in traditional supervision. With the development of 5G, edge AI, and multi protocol fusion technology, future data acquisition devices will inevitably evolve towards higher sampling rates, stronger anti-interference capabilities, and lower power consumption, becoming truly 'thinking' intelligent front-end.

This report studies the global Data Acquisition Instrument production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Data Acquisition Instrument 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 National Instruments, Keysight Technologies, Siemens AG, Honeywell, ABB, Emerson, AMETEK, Teledyne, Spectris, Rockwell Automation, 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 Instrument 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 Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Acquisition Instrument Market, Segmentation by Type:

Low Speed Type: ? 100 Hz

Medium Speed Type: 100 Hz -10 kHz

High Speed Type: 10 kHz -1 MHz

Ultra High Speed Type: 10 MHz -500 MHz

Global Data Acquisition Instrument Market, Segmentation by Signal Type:

Voltage Acquisition Type

Temperature Acquisition Type

Humidity Acquisition Type

Global Data Acquisition Instrument Market, Segmentation by Accuracy Class:

Low Precision Type

Standard Precision Type

High Precision Type

Global Data Acquisition Instrument Market, Segmentation by Application:

Product Testing

Environmental Testing

Water Quality Testing

Companies Profiled:

National Instruments

Keysight Technologies

Siemens AG

Honeywell

ABB

Emerson

AMETEK

Teledyne

Spectris

Rockwell Automation

Fluke Corporation

Tektronix

Yokogawa Electric Corporation

Hioki E.E. Corporation

Beijing StarRiver Technology Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Data Acquisition Instrument Introduction
- 1.2 World Data Acquisition Instrument Supply & Forecast
 - 1.2.1 World Data Acquisition Instrument Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Data Acquisition Instrument Production (2021-2032)
 - 1.2.3 World Data Acquisition Instrument Pricing Trends (2021-2032)
- 1.3 World Data Acquisition Instrument Production by Region (Based on Production Site)
 - 1.3.1 World Data Acquisition Instrument Production Value by Region (2021-2032)
 - 1.3.2 World Data Acquisition Instrument Production by Region (2021-2032)
 - 1.3.3 World Data Acquisition Instrument Average Price by Region (2021-2032)
 - 1.3.4 North America Data Acquisition Instrument Production (2021-2032)
 - 1.3.5 Europe Data Acquisition Instrument Production (2021-2032)
 - 1.3.6 China Data Acquisition Instrument Production (2021-2032)
 - 1.3.7 Japan Data Acquisition Instrument Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Data Acquisition Instrument Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Data Acquisition Instrument Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Data Acquisition Instrument Demand (2021-2032)
- 2.2 World Data Acquisition Instrument Consumption by Region
 - 2.2.1 World Data Acquisition Instrument Consumption by Region (2021-2026)
 - 2.2.2 World Data Acquisition Instrument Consumption Forecast by Region (2027-2032)
- 2.3 United States Data Acquisition Instrument Consumption (2021-2032)
- 2.4 China Data Acquisition Instrument Consumption (2021-2032)
- 2.5 Europe Data Acquisition Instrument Consumption (2021-2032)
- 2.6 Japan Data Acquisition Instrument Consumption (2021-2032)
- 2.7 South Korea Data Acquisition Instrument Consumption (2021-2032)
- 2.8 ASEAN Data Acquisition Instrument Consumption (2021-2032)
- 2.9 India Data Acquisition Instrument Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Data Acquisition Instrument Production Value by Manufacturer (2021-2026)

- 3.2 World Data Acquisition Instrument Production by Manufacturer (2021-2026)
- 3.3 World Data Acquisition Instrument Average Price by Manufacturer (2021-2026)
- 3.4 Data Acquisition Instrument Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Data Acquisition Instrument Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Data Acquisition Instrument in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Data Acquisition Instrument in 2025
- 3.6 Data Acquisition Instrument Market: Overall Company Footprint Analysis
 - 3.6.1 Data Acquisition Instrument Market: Region Footprint
 - 3.6.2 Data Acquisition Instrument Market: Company Product Type Footprint
 - 3.6.3 Data Acquisition Instrument Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Data Acquisition Instrument Production Value Comparison
 - 4.1.1 United States VS China: Data Acquisition Instrument Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Data Acquisition Instrument Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Data Acquisition Instrument Production Comparison
 - 4.2.1 United States VS China: Data Acquisition Instrument Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Data Acquisition Instrument Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Data Acquisition Instrument Consumption Comparison
 - 4.3.1 United States VS China: Data Acquisition Instrument Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Data Acquisition Instrument Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Data Acquisition Instrument Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Data Acquisition Instrument Production Value (2021-2026)

4.4.3 United States Based Manufacturers Data Acquisition Instrument Production (2021-2026)

4.5 China Based Data Acquisition Instrument Manufacturers and Market Share

4.5.1 China Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Data Acquisition Instrument Production Value (2021-2026)

4.5.3 China Based Manufacturers Data Acquisition Instrument Production (2021-2026)

4.6 Rest of World Based Data Acquisition Instrument Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Data Acquisition Instrument Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Data Acquisition Instrument Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Data Acquisition Instrument Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Low Speed Type: ? 100 Hz

5.2.2 Medium Speed Type: 100 Hz -10 kHz

5.2.3 High Speed Type: 10 kHz -1 MHz

5.2.4 Ultra High Speed Type: 10 MHz -500 MHz

5.3 Market Segment by Type

5.3.1 World Data Acquisition Instrument Production by Type (2021-2032)

5.3.2 World Data Acquisition Instrument Production Value by Type (2021-2032)

5.3.3 World Data Acquisition Instrument Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SIGNAL TYPE

6.1 World Data Acquisition Instrument Market Size Overview by Signal Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Signal Type

6.2.1 Voltage Acquisition Type

6.2.2 Temperature Acquisition Type

6.2.3 Humidity Acquisition Type

6.3 Market Segment by Signal Type

6.3.1 World Data Acquisition Instrument Production by Signal Type (2021-2032)

6.3.2 World Data Acquisition Instrument Production Value by Signal Type (2021-2032)

6.3.3 World Data Acquisition Instrument Average Price by Signal Type (2021-2032)

7 MARKET ANALYSIS BY ACCURACY CLASS

7.1 World Data Acquisition Instrument Market Size Overview by Accuracy Class: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Accuracy Class

7.2.1 Low Precision Type

7.2.2 Standard Precision Type

7.2.3 High Precision Type

7.3 Market Segment by Accuracy Class

7.3.1 World Data Acquisition Instrument Production by Accuracy Class (2021-2032)

7.3.2 World Data Acquisition Instrument Production Value by Accuracy Class (2021-2032)

7.3.3 World Data Acquisition Instrument Average Price by Accuracy Class (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Data Acquisition Instrument Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Product Testing

8.2.2 Environmental Testing

8.2.3 Water Quality Testing

8.3 Market Segment by Application

8.3.1 World Data Acquisition Instrument Production by Application (2021-2032)

8.3.2 World Data Acquisition Instrument Production Value by Application (2021-2032)

8.3.3 World Data Acquisition Instrument Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 National Instruments

9.1.1 National Instruments Details

9.1.2 National Instruments Major Business

- 9.1.3 National Instruments Data Acquisition Instrument Product and Services
- 9.1.4 National Instruments Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 National Instruments Recent Developments/Updates
- 9.1.6 National Instruments Competitive Strengths & Weaknesses
- 9.2 Keysight Technologies
 - 9.2.1 Keysight Technologies Details
 - 9.2.2 Keysight Technologies Major Business
 - 9.2.3 Keysight Technologies Data Acquisition Instrument Product and Services
 - 9.2.4 Keysight Technologies Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Keysight Technologies Recent Developments/Updates
 - 9.2.6 Keysight Technologies Competitive Strengths & Weaknesses
- 9.3 Siemens AG
 - 9.3.1 Siemens AG Details
 - 9.3.2 Siemens AG Major Business
 - 9.3.3 Siemens AG Data Acquisition Instrument Product and Services
 - 9.3.4 Siemens AG Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Siemens AG Recent Developments/Updates
 - 9.3.6 Siemens AG Competitive Strengths & Weaknesses
- 9.4 Honeywell
 - 9.4.1 Honeywell Details
 - 9.4.2 Honeywell Major Business
 - 9.4.3 Honeywell Data Acquisition Instrument Product and Services
 - 9.4.4 Honeywell Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Honeywell Recent Developments/Updates
 - 9.4.6 Honeywell Competitive Strengths & Weaknesses
- 9.5 ABB
 - 9.5.1 ABB Details
 - 9.5.2 ABB Major Business
 - 9.5.3 ABB Data Acquisition Instrument Product and Services
 - 9.5.4 ABB Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ABB Recent Developments/Updates
 - 9.5.6 ABB Competitive Strengths & Weaknesses
- 9.6 Emerson
 - 9.6.1 Emerson Details

9.6.2 Emerson Major Business

9.6.3 Emerson Data Acquisition Instrument Product and Services

9.6.4 Emerson Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Emerson Recent Developments/Updates

9.6.6 Emerson Competitive Strengths & Weaknesses

9.7 AMETEK

9.7.1 AMETEK Details

9.7.2 AMETEK Major Business

9.7.3 AMETEK Data Acquisition Instrument Product and Services

9.7.4 AMETEK Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 AMETEK Recent Developments/Updates

9.7.6 AMETEK Competitive Strengths & Weaknesses

9.8 Teledyne

9.8.1 Teledyne Details

9.8.2 Teledyne Major Business

9.8.3 Teledyne Data Acquisition Instrument Product and Services

9.8.4 Teledyne Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Teledyne Recent Developments/Updates

9.8.6 Teledyne Competitive Strengths & Weaknesses

9.9 Spectris

9.9.1 Spectris Details

9.9.2 Spectris Major Business

9.9.3 Spectris Data Acquisition Instrument Product and Services

9.9.4 Spectris Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Spectris Recent Developments/Updates

9.9.6 Spectris Competitive Strengths & Weaknesses

9.10 Rockwell Automation

9.10.1 Rockwell Automation Details

9.10.2 Rockwell Automation Major Business

9.10.3 Rockwell Automation Data Acquisition Instrument Product and Services

9.10.4 Rockwell Automation Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Rockwell Automation Recent Developments/Updates

9.10.6 Rockwell Automation Competitive Strengths & Weaknesses

9.11 Fluke Corporation

- 9.11.1 Fluke Corporation Details
- 9.11.2 Fluke Corporation Major Business
- 9.11.3 Fluke Corporation Data Acquisition Instrument Product and Services
- 9.11.4 Fluke Corporation Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Fluke Corporation Recent Developments/Updates
- 9.11.6 Fluke Corporation Competitive Strengths & Weaknesses
- 9.12 Tektronix
- 9.12.1 Tektronix Details
- 9.12.2 Tektronix Major Business
- 9.12.3 Tektronix Data Acquisition Instrument Product and Services
- 9.12.4 Tektronix Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Tektronix Recent Developments/Updates
- 9.12.6 Tektronix Competitive Strengths & Weaknesses
- 9.13 Yokogawa Electric Corporation
- 9.13.1 Yokogawa Electric Corporation Details
- 9.13.2 Yokogawa Electric Corporation Major Business
- 9.13.3 Yokogawa Electric Corporation Data Acquisition Instrument Product and Services
- 9.13.4 Yokogawa Electric Corporation Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Yokogawa Electric Corporation Recent Developments/Updates
- 9.13.6 Yokogawa Electric Corporation Competitive Strengths & Weaknesses
- 9.14 Hioki E.E. Corporation
- 9.14.1 Hioki E.E. Corporation Details
- 9.14.2 Hioki E.E. Corporation Major Business
- 9.14.3 Hioki E.E. Corporation Data Acquisition Instrument Product and Services
- 9.14.4 Hioki E.E. Corporation Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Hioki E.E. Corporation Recent Developments/Updates
- 9.14.6 Hioki E.E. Corporation Competitive Strengths & Weaknesses
- 9.15 Beijing StarRiver Technology Co., Ltd.
- 9.15.1 Beijing StarRiver Technology Co., Ltd. Details
- 9.15.2 Beijing StarRiver Technology Co., Ltd. Major Business
- 9.15.3 Beijing StarRiver Technology Co., Ltd. Data Acquisition Instrument Product and Services
- 9.15.4 Beijing StarRiver Technology Co., Ltd. Data Acquisition Instrument Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Beijing StarRiver Technology Co., Ltd. Recent Developments/Updates

9.15.6 Beijing StarRiver Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Data Acquisition Instrument Industry Chain

10.2 Data Acquisition Instrument Upstream Analysis

10.2.1 Data Acquisition Instrument Core Raw Materials

10.2.2 Main Manufacturers of Data Acquisition Instrument Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Data Acquisition Instrument Production Mode

10.6 Data Acquisition Instrument Procurement Model

10.7 Data Acquisition Instrument Industry Sales Model and Sales Channels

10.7.1 Data Acquisition Instrument Sales Model

10.7.2 Data Acquisition Instrument Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Data Acquisition Instrument Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Data Acquisition Instrument Production Value by Region (2021-2026) & (USD Million)

Table 3. World Data Acquisition Instrument Production Value by Region (2027-2032) & (USD Million)

Table 4. World Data Acquisition Instrument Production Value Market Share by Region (2021-2026)

Table 5. World Data Acquisition Instrument Production Value Market Share by Region (2027-2032)

Table 6. World Data Acquisition Instrument Production by Region (2021-2026) & (K Units)

Table 7. World Data Acquisition Instrument Production by Region (2027-2032) & (K Units)

Table 8. World Data Acquisition Instrument Production Market Share by Region (2021-2026)

Table 9. World Data Acquisition Instrument Production Market Share by Region (2027-2032)

Table 10. World Data Acquisition Instrument Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Data Acquisition Instrument Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Data Acquisition Instrument Major Market Trends

Table 13. World Data Acquisition Instrument Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Data Acquisition Instrument Consumption by Region (2021-2026) & (K Units)

Table 15. World Data Acquisition Instrument Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Data Acquisition Instrument Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Data Acquisition Instrument Producers in 2025

Table 18. World Data Acquisition Instrument Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Data Acquisition Instrument Producers in 2025

Table 20. World Data Acquisition Instrument Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Data Acquisition Instrument Company Evaluation Quadrant

Table 22. World Data Acquisition Instrument Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Data Acquisition Instrument Production Site of Key Manufacturer

Table 24. Data Acquisition Instrument Market: Company Product Type Footprint

Table 25. Data Acquisition Instrument Market: Company Product Application Footprint

Table 26. Data Acquisition Instrument Competitive Factors

Table 27. Data Acquisition Instrument New Entrant and Capacity Expansion Plans

Table 28. Data Acquisition Instrument Mergers & Acquisitions Activity

Table 29. United States VS China Data Acquisition Instrument Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Data Acquisition Instrument Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Data Acquisition Instrument Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Data Acquisition Instrument Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Data Acquisition Instrument Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Data Acquisition Instrument Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Data Acquisition Instrument Production Market Share (2021-2026)

Table 37. China Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Data Acquisition Instrument Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Data Acquisition Instrument Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Data Acquisition Instrument Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Data Acquisition Instrument Production Market

Share (2021-2026)

Table 42. Rest of World Based Data Acquisition Instrument Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Data Acquisition Instrument Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Data Acquisition Instrument Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Data Acquisition Instrument Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Data Acquisition Instrument Production Market Share (2021-2026)

Table 47. World Data Acquisition Instrument Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Data Acquisition Instrument Production by Type (2021-2026) & (K Units)

Table 49. World Data Acquisition Instrument Production by Type (2027-2032) & (K Units)

Table 50. World Data Acquisition Instrument Production Value by Type (2021-2026) & (USD Million)

Table 51. World Data Acquisition Instrument Production Value by Type (2027-2032) & (USD Million)

Table 52. World Data Acquisition Instrument Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Data Acquisition Instrument Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Data Acquisition Instrument Production Value by Signal Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Data Acquisition Instrument Production by Signal Type (2021-2026) & (K Units)

Table 56. World Data Acquisition Instrument Production by Signal Type (2027-2032) & (K Units)

Table 57. World Data Acquisition Instrument Production Value by Signal Type (2021-2026) & (USD Million)

Table 58. World Data Acquisition Instrument Production Value by Signal Type (2027-2032) & (USD Million)

Table 59. World Data Acquisition Instrument Average Price by Signal Type (2021-2026) & (US\$/Unit)

Table 60. World Data Acquisition Instrument Average Price by Signal Type (2027-2032) & (US\$/Unit)

Table 61. World Data Acquisition Instrument Production Value by Accuracy Class, (USD Million), 2021 & 2025 & 2032

Table 62. World Data Acquisition Instrument Production by Accuracy Class (2021-2026) & (K Units)

Table 63. World Data Acquisition Instrument Production by Accuracy Class (2027-2032) & (K Units)

Table 64. World Data Acquisition Instrument Production Value by Accuracy Class (2021-2026) & (USD Million)

Table 65. World Data Acquisition Instrument Production Value by Accuracy Class (2027-2032) & (USD Million)

Table 66. World Data Acquisition Instrument Average Price by Accuracy Class (2021-2026) & (US\$/Unit)

Table 67. World Data Acquisition Instrument Average Price by Accuracy Class (2027-2032) & (US\$/Unit)

Table 68. World Data Acquisition Instrument Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Data Acquisition Instrument Production by Application (2021-2026) & (K Units)

Table 70. World Data Acquisition Instrument Production by Application (2027-2032) & (K Units)

Table 71. World Data Acquisition Instrument Production Value by Application (2021-2026) & (USD Million)

Table 72. World Data Acquisition Instrument Production Value by Application (2027-2032) & (USD Million)

Table 73. World Data Acquisition Instrument Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Data Acquisition Instrument Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. National Instruments Basic Information, Manufacturing Base and Competitors

Table 76. National Instruments Major Business

Table 77. National Instruments Data Acquisition Instrument Product and Services

Table 78. National Instruments Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. National Instruments Recent Developments/Updates

Table 80. National Instruments Competitive Strengths & Weaknesses

Table 81. Keysight Technologies Basic Information, Manufacturing Base and Competitors

Table 82. Keysight Technologies Major Business

Table 83. Keysight Technologies Data Acquisition Instrument Product and Services

Table 84. Keysight Technologies Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Keysight Technologies Recent Developments/Updates

Table 86. Keysight Technologies Competitive Strengths & Weaknesses

Table 87. Siemens AG Basic Information, Manufacturing Base and Competitors

Table 88. Siemens AG Major Business

Table 89. Siemens AG Data Acquisition Instrument Product and Services

Table 90. Siemens AG Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Siemens AG Recent Developments/Updates

Table 92. Siemens AG Competitive Strengths & Weaknesses

Table 93. Honeywell Basic Information, Manufacturing Base and Competitors

Table 94. Honeywell Major Business

Table 95. Honeywell Data Acquisition Instrument Product and Services

Table 96. Honeywell Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Honeywell Recent Developments/Updates

Table 98. Honeywell Competitive Strengths & Weaknesses

Table 99. ABB Basic Information, Manufacturing Base and Competitors

Table 100. ABB Major Business

Table 101. ABB Data Acquisition Instrument Product and Services

Table 102. ABB Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ABB Recent Developments/Updates

Table 104. ABB Competitive Strengths & Weaknesses

Table 105. Emerson Basic Information, Manufacturing Base and Competitors

Table 106. Emerson Major Business

Table 107. Emerson Data Acquisition Instrument Product and Services

Table 108. Emerson Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Emerson Recent Developments/Updates

Table 110. Emerson Competitive Strengths & Weaknesses

Table 111. AMETEK Basic Information, Manufacturing Base and Competitors

Table 112. AMETEK Major Business

Table 113. AMETEK Data Acquisition Instrument Product and Services

Table 114. AMETEK Data Acquisition Instrument Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. AMETEK Recent Developments/Updates

Table 116. AMETEK Competitive Strengths & Weaknesses

Table 117. Teledyne Basic Information, Manufacturing Base and Competitors

Table 118. Teledyne Major Business

Table 119. Teledyne Data Acquisition Instrument Product and Services

Table 120. Teledyne Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Teledyne Recent Developments/Updates

Table 122. Teledyne Competitive Strengths & Weaknesses

Table 123. Spectris Basic Information, Manufacturing Base and Competitors

Table 124. Spectris Major Business

Table 125. Spectris Data Acquisition Instrument Product and Services

Table 126. Spectris Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Spectris Recent Developments/Updates

Table 128. Spectris Competitive Strengths & Weaknesses

Table 129. Rockwell Automation Basic Information, Manufacturing Base and Competitors

Table 130. Rockwell Automation Major Business

Table 131. Rockwell Automation Data Acquisition Instrument Product and Services

Table 132. Rockwell Automation Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Rockwell Automation Recent Developments/Updates

Table 134. Rockwell Automation Competitive Strengths & Weaknesses

Table 135. Fluke Corporation Basic Information, Manufacturing Base and Competitors

Table 136. Fluke Corporation Major Business

Table 137. Fluke Corporation Data Acquisition Instrument Product and Services

Table 138. Fluke Corporation Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Fluke Corporation Recent Developments/Updates

Table 140. Fluke Corporation Competitive Strengths & Weaknesses

Table 141. Tektronix Basic Information, Manufacturing Base and Competitors

Table 142. Tektronix Major Business

Table 143. Tektronix Data Acquisition Instrument Product and Services

Table 144. Tektronix Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Tektronix Recent Developments/Updates
Table 146. Tektronix Competitive Strengths & Weaknesses
Table 147. Yokogawa Electric Corporation Basic Information, Manufacturing Base and Competitors
Table 148. Yokogawa Electric Corporation Major Business
Table 149. Yokogawa Electric Corporation Data Acquisition Instrument Product and Services
Table 150. Yokogawa Electric Corporation Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Yokogawa Electric Corporation Recent Developments/Updates
Table 152. Yokogawa Electric Corporation Competitive Strengths & Weaknesses
Table 153. Hioki E.E. Corporation Basic Information, Manufacturing Base and Competitors
Table 154. Hioki E.E. Corporation Major Business
Table 155. Hioki E.E. Corporation Data Acquisition Instrument Product and Services
Table 156. Hioki E.E. Corporation Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Hioki E.E. Corporation Recent Developments/Updates
Table 158. Hioki E.E. Corporation Competitive Strengths & Weaknesses
Table 159. Beijing StarRiver Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. Beijing StarRiver Technology Co., Ltd. Major Business
Table 161. Beijing StarRiver Technology Co., Ltd. Data Acquisition Instrument Product and Services
Table 162. Beijing StarRiver Technology Co., Ltd. Data Acquisition Instrument Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Beijing StarRiver Technology Co., Ltd. Recent Developments/Updates
Table 164. Beijing StarRiver Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 165. Global Key Players of Data Acquisition Instrument Upstream (Raw Materials)
Table 166. Global Data Acquisition Instrument Typical Customers
Table 167. Data Acquisition Instrument Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Data Acquisition Instrument Picture

Figure 2. World Data Acquisition Instrument Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Data Acquisition Instrument Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Data Acquisition Instrument Production (2021-2032) & (K Units)

Figure 5. World Data Acquisition Instrument Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Data Acquisition Instrument Production Value Market Share by Region (2021-2032)

Figure 7. World Data Acquisition Instrument Production Market Share by Region (2021-2032)

Figure 8. North America Data Acquisition Instrument Production (2021-2032) & (K Units)

Figure 9. Europe Data Acquisition Instrument Production (2021-2032) & (K Units)

Figure 10. China Data Acquisition Instrument Production (2021-2032) & (K Units)

Figure 11. Japan Data Acquisition Instrument Production (2021-2032) & (K Units)

Figure 12. Data Acquisition Instrument Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 15. World Data Acquisition Instrument Consumption Market Share by Region (2021-2032)

Figure 16. United States Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 17. China Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 18. Europe Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 19. Japan Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 20. South Korea Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 22. India Data Acquisition Instrument Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Data Acquisition Instrument by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Data Acquisition Instrument Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Data Acquisition Instrument

Markets in 2025

Figure 26. United States VS China: Data Acquisition Instrument Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Data Acquisition Instrument Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Data Acquisition Instrument Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Data Acquisition Instrument Production Market Share 2025

Figure 30. China Based Manufacturers Data Acquisition Instrument Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Data Acquisition Instrument Production Market Share 2025

Figure 32. World Data Acquisition Instrument Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Data Acquisition Instrument Production Value Market Share by Type in 2025

Figure 34. Low Speed Type: ? 100 Hz

Figure 35. Medium Speed Type: 100 Hz -10 kHz

Figure 36. High Speed Type: 10 kHz -1 MHz

Figure 37. Ultra High Speed Type: 10 MHz -500 MHz

Figure 38. World Data Acquisition Instrument Production Market Share by Type (2021-2032)

Figure 39. World Data Acquisition Instrument Production Value Market Share by Type (2021-2032)

Figure 40. World Data Acquisition Instrument Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Data Acquisition Instrument Production Value by Signal Type, (USD Million), 2021 & 2025 & 2032

Figure 42. World Data Acquisition Instrument Production Value Market Share by Signal Type in 2025

Figure 43. Voltage Acquisition Type

Figure 44. Temperature Acquisition Type

Figure 45. Humidity Acquisition Type

Figure 46. World Data Acquisition Instrument Production Market Share by Signal Type (2021-2032)

Figure 47. World Data Acquisition Instrument Production Value Market Share by Signal Type (2021-2032)

Figure 48. World Data Acquisition Instrument Average Price by Signal Type

(2021-2032) & (US\$/Unit)

Figure 49. World Data Acquisition Instrument Production Value by Accuracy Class, (USD Million), 2021 & 2025 & 2032

Figure 50. World Data Acquisition Instrument Production Value Market Share by Accuracy Class in 2025

Figure 51. Low Precision Type

Figure 52. Standard Precision Type

Figure 53. High Precision Type

Figure 54. World Data Acquisition Instrument Production Market Share by Accuracy Class (2021-2032)

Figure 55. World Data Acquisition Instrument Production Value Market Share by Accuracy Class (2021-2032)

Figure 56. World Data Acquisition Instrument Average Price by Accuracy Class (2021-2032) & (US\$/Unit)

Figure 57. World Data Acquisition Instrument Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Data Acquisition Instrument Production Value Market Share by Application in 2025

Figure 59. Product Testing

Figure 60. Environmental Testing

Figure 61. Water Quality Testing

Figure 62. World Data Acquisition Instrument Production Market Share by Application (2021-2032)

Figure 63. World Data Acquisition Instrument Production Value Market Share by Application (2021-2032)

Figure 64. World Data Acquisition Instrument Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Data Acquisition Instrument Industry Chain

Figure 66. Data Acquisition Instrument Procurement Model

Figure 67. Data Acquisition Instrument Sales Model

Figure 68. Data Acquisition Instrument Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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