

Global Multichannel Analyzer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Multichannel Analyzer market size is expected to reach \$ 1014 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

A Multichannel Analyzer, or MCA, is a nuclear electronics instrument that digitizes detector output pulses, sorts them into channels according to pulse height or timing characteristics, and builds an energy spectrum or time spectrum for further analysis. It is the core acquisition and readout unit in many radiation spectroscopy systems. Typical form factors include desktop units, NIM modules, portable handheld modules, detector-integrated tube bases, and fully integrated digital workstations. Internally, an MCA generally comprises front-end signal conditioning, analog-to-digital conversion, digital pulse processing, memory, communications interfaces, power management, and spectrum analysis software. From a technical standpoint, MCAs can be categorized as analog, digital, integrated, or portable systems. They are used with scintillation detectors such as NaI(Tl), LaBr₃, and CeBr₃, as well as semiconductor detectors including HPGe, silicon, CdTe, and CZT. Their operating principle is to sample incoming pulses generated by radiation interactions, process and classify those pulses, and accumulate them into histograms that support radionuclide identification, energy calibration, activity analysis, and radiation process monitoring.

From a global industry perspective, the real opportunity in the multichannel analyzer market does not lie in simple volume expansion of basic spectroscopy hardware, but in the replacement cycle toward high-performance digital readout platforms. Nuclear power life extension, decommissioning and waste management, border and homeland security, emergency monitoring, environmental radiochemistry laboratories, and radiopharmaceutical quality control together provide the structural demand base for MCA systems. At the same time, the maturation of detector technologies such as

HPGe, CZT, LaBr₃, and SiPM is pushing front-end electronics toward higher throughput, lower dead time, better thermal stability, greater integration, and more user-friendly analytical software. Digital, integrated, portable, and detector-base MCA formats are lowering deployment barriers and extending adoption from traditional nuclear research institutes to industrial laboratories, environmental monitoring entities, security integrators, and medical radiation users. For investors and strategic adopters, this is not a mass-market story but a high-entry-barrier, high-stickiness niche defined by strong hardware-software coupling and recurring value from calibration, maintenance, and analytical workflows.

The market, however, is constrained by several structural risks. First, procurement is highly dependent on institutional budgets and radiation-related project cycles, making demand more project-based than consumable-like. Second, end performance depends not only on the MCA itself, but on the full chain including detector, preamplifier, shielding, algorithms, and spectroscopy software, which creates long qualification cycles and high switching costs. Third, the sector has experienced meaningful consolidation: ORTEC and Amptek are under AMETEK, while Canberra-related spectroscopy assets are now associated with Mirion. This complicates supplier mapping, market sizing, and due diligence. Fourth, some companies offer systems that include MCA functionality without marketing a stand-alone standard MCA product, so any competitive landscape that fails to distinguish between core MCA manufacturers and broader system integrators will overstate the number of directly comparable suppliers.

Downstream demand is shifting from 'obtaining a spectrum' to 'obtaining decision-grade data.' This will favor products with automatic stabilization, automated radionuclide identification, remote connectivity, low power consumption, field deployability, and tighter detector integration. In nuclear facilities, border security, mobile emergency response, and environmental monitoring, portable and embedded MCAs are likely to gain share. In advanced laboratories and radioanalytical institutions, high-stability digital MCA platforms for HPGe, low-background counting, and high-resolution radionuclide analysis will remain a premium segment. In nuclear medicine and radiopharmaceutical QC, MCA capability will increasingly be embedded within automatic gamma counters, radio-TLC systems, and application-specific spectrometers. In other words, the market is not disappearing; it is evolving along four clear vectors: digitalization, integration, specialization, and software-centric value creation. Suppliers that combine hardware performance, analytical algorithms, and deep application understanding will hold the strongest long-term positions.

This report studies the global Multichannel Analyzer production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Multichannel Analyzer total production and demand, 2021-2032, (K Units)

Global Multichannel Analyzer total production value, 2021-2032, (USD Million)

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

Global Multichannel Analyzer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Multichannel Analyzer domestic production, consumption, key domestic manufacturers and share

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

Global Multichannel Analyzer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Multichannel Analyzer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Multichannel Analyzer 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 AMETEK, Mirion Technologies, CAEN, Berkeley Nucleonics, FAST ComTec, Kromek, Bridgeport Instruments, Baltic Scientific Instruments, GBS Elektronik, PHYWE, 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 Multichannel Analyzer market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multichannel Analyzer Market, Segmentation by Type:

Portable

Bench-top

Global Multichannel Analyzer Market, Segmentation by Signal Processing Architecture:

Analog Multichannel Analyzer

Digital Multichannel Analyzer

Global Multichannel Analyzer Market, Segmentation by Level of System Integration:

Stand-alone MCA

NIM Module MCA

Tube-base Integrated MCA

Workstation Integrated MCA

Embedded/OEM MCA

Global Multichannel Analyzer Market, Segmentation by Compatible Detector Type:

Scintillation Detector MCA

Semiconductor Detector MCA

Universal Detector-Compatible MCA

Global Multichannel Analyzer Market, Segmentation by Application:

Environmental Monitoring

Pharmaceutical Manufacturing

Food Safety

Metal Analysis

Others

Companies Profiled:

AMETEK

Mirion Technologies

CAEN

Berkeley Nucleonics

FAST ComTec

Kromek

Bridgeport Instruments

Baltic Scientific Instruments

GBS Elektronik

PHYWE

LabLogic

Hidex

Jiechuang Nuclear Instrument (Beijing) Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Multichannel Analyzer Introduction
- 1.2 World Multichannel Analyzer Supply & Forecast
 - 1.2.1 World Multichannel Analyzer Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Multichannel Analyzer Production (2021-2032)
 - 1.2.3 World Multichannel Analyzer Pricing Trends (2021-2032)
- 1.3 World Multichannel Analyzer Production by Region (Based on Production Site)
 - 1.3.1 World Multichannel Analyzer Production Value by Region (2021-2032)
 - 1.3.2 World Multichannel Analyzer Production by Region (2021-2032)
 - 1.3.3 World Multichannel Analyzer Average Price by Region (2021-2032)
 - 1.3.4 North America Multichannel Analyzer Production (2021-2032)
 - 1.3.5 Germany Multichannel Analyzer Production (2021-2032)
 - 1.3.6 Italy Multichannel Analyzer Production (2021-2032)
 - 1.3.7 United Kingdom Multichannel Analyzer Production (2021-2032)
 - 1.3.8 China Multichannel Analyzer Production (2021-2032)
 - 1.3.9 Latvia Multichannel Analyzer Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Multichannel Analyzer Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Multichannel Analyzer Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Multichannel Analyzer Production Value by Manufacturer (2021-2026)
- 3.2 World Multichannel Analyzer Production by Manufacturer (2021-2026)
- 3.3 World Multichannel Analyzer Average Price by Manufacturer (2021-2026)
- 3.4 Multichannel Analyzer Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Multichannel Analyzer Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Multichannel Analyzer in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Multichannel Analyzer in 2025
- 3.6 Multichannel Analyzer Market: Overall Company Footprint Analysis
 - 3.6.1 Multichannel Analyzer Market: Region Footprint
 - 3.6.2 Multichannel Analyzer Market: Company Product Type Footprint
 - 3.6.3 Multichannel Analyzer 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: Multichannel Analyzer Production Value Comparison
 - 4.1.1 United States VS China: Multichannel Analyzer Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Multichannel Analyzer Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Multichannel Analyzer Production Comparison
 - 4.2.1 United States VS China: Multichannel Analyzer Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Multichannel Analyzer Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Multichannel Analyzer Consumption Comparison
 - 4.3.1 United States VS China: Multichannel Analyzer Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Multichannel Analyzer Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Multichannel Analyzer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Multichannel Analyzer Production Value (2021-2026)

4.4.3 United States Based Manufacturers Multichannel Analyzer Production (2021-2026)

4.5 China Based Multichannel Analyzer Manufacturers and Market Share

4.5.1 China Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Multichannel Analyzer Production Value (2021-2026)

4.5.3 China Based Manufacturers Multichannel Analyzer Production (2021-2026)

4.6 Rest of World Based Multichannel Analyzer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Multichannel Analyzer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Multichannel Analyzer Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Multichannel Analyzer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Portable

5.2.2 Bench-top

5.3 Market Segment by Type

5.3.1 World Multichannel Analyzer Production by Type (2021-2032)

5.3.2 World Multichannel Analyzer Production Value by Type (2021-2032)

5.3.3 World Multichannel Analyzer Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SIGNAL PROCESSING ARCHITECTURE

6.1 World Multichannel Analyzer Market Size Overview by Signal Processing Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Signal Processing Architecture

6.2.1 Analog Multichannel Analyzer

6.2.2 Digital Multichannel Analyzer

6.3 Market Segment by Signal Processing Architecture

6.3.1 World Multichannel Analyzer Production by Signal Processing Architecture
(2021-2032)

6.3.2 World Multichannel Analyzer Production Value by Signal Processing Architecture
(2021-2032)

6.3.3 World Multichannel Analyzer Average Price by Signal Processing Architecture
(2021-2032)

7 MARKET ANALYSIS BY LEVEL OF SYSTEM INTEGRATION

7.1 World Multichannel Analyzer Market Size Overview by Level of System Integration:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Level of System Integration

7.2.1 Stand-alone MCA

7.2.2 NIM Module MCA

7.2.3 Tube-base Integrated MCA

7.2.4 Workstation Integrated MCA

7.2.5 Embedded/OEM MCA

7.3 Market Segment by Level of System Integration

7.3.1 World Multichannel Analyzer Production by Level of System Integration
(2021-2032)

7.3.2 World Multichannel Analyzer Production Value by Level of System Integration
(2021-2032)

7.3.3 World Multichannel Analyzer Average Price by Level of System Integration
(2021-2032)

8 MARKET ANALYSIS BY COMPATIBLE DETECTOR TYPE

8.1 World Multichannel Analyzer Market Size Overview by Compatible Detector Type:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Compatible Detector Type

8.2.1 Scintillation Detector MCA

8.2.2 Semiconductor Detector MCA

8.2.3 Universal Detector-Compatible MCA

8.3 Market Segment by Compatible Detector Type

8.3.1 World Multichannel Analyzer Production by Compatible Detector Type
(2021-2032)

8.3.2 World Multichannel Analyzer Production Value by Compatible Detector Type

(2021-2032)

8.3.3 World Multichannel Analyzer Average Price by Compatible Detector Type

(2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Multichannel Analyzer Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Environmental Monitoring

9.2.2 Pharmaceutical Manufacturing

9.2.3 Food Safety

9.2.4 Metal Analysis

9.2.5 Others

9.3 Market Segment by Application

9.3.1 World Multichannel Analyzer Production by Application (2021-2032)

9.3.2 World Multichannel Analyzer Production Value by Application (2021-2032)

9.3.3 World Multichannel Analyzer Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 AMETEK

10.1.1 AMETEK Details

10.1.2 AMETEK Major Business

10.1.3 AMETEK Multichannel Analyzer Product and Services

10.1.4 AMETEK Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 AMETEK Recent Developments/Updates

10.1.6 AMETEK Competitive Strengths & Weaknesses

10.2 Mirion Technologies

10.2.1 Mirion Technologies Details

10.2.2 Mirion Technologies Major Business

10.2.3 Mirion Technologies Multichannel Analyzer Product and Services

10.2.4 Mirion Technologies Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Mirion Technologies Recent Developments/Updates

10.2.6 Mirion Technologies Competitive Strengths & Weaknesses

10.3 CAEN

10.3.1 CAEN Details

- 10.3.2 CAEN Major Business
- 10.3.3 CAEN Multichannel Analyzer Product and Services
- 10.3.4 CAEN Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.3.5 CAEN Recent Developments/Updates
- 10.3.6 CAEN Competitive Strengths & Weaknesses
- 10.4 Berkeley Nucleonics
 - 10.4.1 Berkeley Nucleonics Details
 - 10.4.2 Berkeley Nucleonics Major Business
 - 10.4.3 Berkeley Nucleonics Multichannel Analyzer Product and Services
 - 10.4.4 Berkeley Nucleonics Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Berkeley Nucleonics Recent Developments/Updates
 - 10.4.6 Berkeley Nucleonics Competitive Strengths & Weaknesses
- 10.5 FAST ComTec
 - 10.5.1 FAST ComTec Details
 - 10.5.2 FAST ComTec Major Business
 - 10.5.3 FAST ComTec Multichannel Analyzer Product and Services
 - 10.5.4 FAST ComTec Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 FAST ComTec Recent Developments/Updates
 - 10.5.6 FAST ComTec Competitive Strengths & Weaknesses
- 10.6 Kromek
 - 10.6.1 Kromek Details
 - 10.6.2 Kromek Major Business
 - 10.6.3 Kromek Multichannel Analyzer Product and Services
 - 10.6.4 Kromek Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Kromek Recent Developments/Updates
 - 10.6.6 Kromek Competitive Strengths & Weaknesses
- 10.7 Bridgeport Instruments
 - 10.7.1 Bridgeport Instruments Details
 - 10.7.2 Bridgeport Instruments Major Business
 - 10.7.3 Bridgeport Instruments Multichannel Analyzer Product and Services
 - 10.7.4 Bridgeport Instruments Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Bridgeport Instruments Recent Developments/Updates
 - 10.7.6 Bridgeport Instruments Competitive Strengths & Weaknesses
- 10.8 Baltic Scientific Instruments

- 10.8.1 Baltic Scientific Instruments Details
- 10.8.2 Baltic Scientific Instruments Major Business
- 10.8.3 Baltic Scientific Instruments Multichannel Analyzer Product and Services
- 10.8.4 Baltic Scientific Instruments Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.8.5 Baltic Scientific Instruments Recent Developments/Updates
- 10.8.6 Baltic Scientific Instruments Competitive Strengths & Weaknesses
- 10.9 GBS Elektronik
- 10.9.1 GBS Elektronik Details
- 10.9.2 GBS Elektronik Major Business
- 10.9.3 GBS Elektronik Multichannel Analyzer Product and Services
- 10.9.4 GBS Elektronik Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 GBS Elektronik Recent Developments/Updates
- 10.9.6 GBS Elektronik Competitive Strengths & Weaknesses
- 10.10 PHYWE
- 10.10.1 PHYWE Details
- 10.10.2 PHYWE Major Business
- 10.10.3 PHYWE Multichannel Analyzer Product and Services
- 10.10.4 PHYWE Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 PHYWE Recent Developments/Updates
- 10.10.6 PHYWE Competitive Strengths & Weaknesses
- 10.11 LabLogic
- 10.11.1 LabLogic Details
- 10.11.2 LabLogic Major Business
- 10.11.3 LabLogic Multichannel Analyzer Product and Services
- 10.11.4 LabLogic Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 LabLogic Recent Developments/Updates
- 10.11.6 LabLogic Competitive Strengths & Weaknesses
- 10.12 Hidex
- 10.12.1 Hidex Details
- 10.12.2 Hidex Major Business
- 10.12.3 Hidex Multichannel Analyzer Product and Services
- 10.12.4 Hidex Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.12.5 Hidex Recent Developments/Updates
- 10.12.6 Hidex Competitive Strengths & Weaknesses

10.13 Jiechuang Nuclear Instrument (Beijing) Technology

10.13.1 Jiechuang Nuclear Instrument (Beijing) Technology Details

10.13.2 Jiechuang Nuclear Instrument (Beijing) Technology Major Business

10.13.3 Jiechuang Nuclear Instrument (Beijing) Technology Multichannel Analyzer Product and Services

10.13.4 Jiechuang Nuclear Instrument (Beijing) Technology Multichannel Analyzer Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.13.5 Jiechuang Nuclear Instrument (Beijing) Technology Recent Developments/Updates

10.13.6 Jiechuang Nuclear Instrument (Beijing) Technology Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Multichannel Analyzer Industry Chain

11.2 Multichannel Analyzer Upstream Analysis

11.2.1 Multichannel Analyzer Core Raw Materials

11.2.2 Main Manufacturers of Multichannel Analyzer Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Multichannel Analyzer Production Mode

11.6 Multichannel Analyzer Procurement Model

11.7 Multichannel Analyzer Industry Sales Model and Sales Channels

11.7.1 Multichannel Analyzer Sales Model

11.7.2 Multichannel Analyzer Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Multichannel Analyzer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Multichannel Analyzer Production Value by Region (2021-2026) & (USD Million)

Table 3. World Multichannel Analyzer Production Value by Region (2027-2032) & (USD Million)

Table 4. World Multichannel Analyzer Production Value Market Share by Region (2021-2026)

Table 5. World Multichannel Analyzer Production Value Market Share by Region (2027-2032)

Table 6. World Multichannel Analyzer Production by Region (2021-2026) & (K Units)

Table 7. World Multichannel Analyzer Production by Region (2027-2032) & (K Units)

Table 8. World Multichannel Analyzer Production Market Share by Region (2021-2026)

Table 9. World Multichannel Analyzer Production Market Share by Region (2027-2032)

Table 10. World Multichannel Analyzer Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Multichannel Analyzer Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Multichannel Analyzer Major Market Trends

Table 13. World Multichannel Analyzer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Multichannel Analyzer Consumption by Region (2021-2026) & (K Units)

Table 15. World Multichannel Analyzer Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Multichannel Analyzer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Multichannel Analyzer Producers in 2025

Table 18. World Multichannel Analyzer Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Multichannel Analyzer Producers in 2025

Table 20. World Multichannel Analyzer Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Multichannel Analyzer Company Evaluation Quadrant

Table 22. World Multichannel Analyzer Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Multichannel Analyzer Production Site of Key Manufacturer

Table 24. Multichannel Analyzer Market: Company Product Type Footprint

Table 25. Multichannel Analyzer Market: Company Product Application Footprint

Table 26. Multichannel Analyzer Competitive Factors

Table 27. Multichannel Analyzer New Entrant and Capacity Expansion Plans

Table 28. Multichannel Analyzer Mergers & Acquisitions Activity

Table 29. United States VS China Multichannel Analyzer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Multichannel Analyzer Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Multichannel Analyzer Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Multichannel Analyzer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Multichannel Analyzer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Multichannel Analyzer Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Multichannel Analyzer Production Market Share (2021-2026)

Table 37. China Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Multichannel Analyzer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Multichannel Analyzer Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Multichannel Analyzer Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Multichannel Analyzer Production Market Share (2021-2026)

Table 42. Rest of World Based Multichannel Analyzer Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Multichannel Analyzer Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Multichannel Analyzer Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Multichannel Analyzer Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Multichannel Analyzer Production Market Share (2021-2026)

Table 47. World Multichannel Analyzer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Multichannel Analyzer Production by Type (2021-2026) & (K Units)

Table 49. World Multichannel Analyzer Production by Type (2027-2032) & (K Units)

Table 50. World Multichannel Analyzer Production Value by Type (2021-2026) & (USD Million)

Table 51. World Multichannel Analyzer Production Value by Type (2027-2032) & (USD Million)

Table 52. World Multichannel Analyzer Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Multichannel Analyzer Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Multichannel Analyzer Production Value by Signal Processing Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Multichannel Analyzer Production by Signal Processing Architecture (2021-2026) & (K Units)

Table 56. World Multichannel Analyzer Production by Signal Processing Architecture (2027-2032) & (K Units)

Table 57. World Multichannel Analyzer Production Value by Signal Processing Architecture (2021-2026) & (USD Million)

Table 58. World Multichannel Analyzer Production Value by Signal Processing Architecture (2027-2032) & (USD Million)

Table 59. World Multichannel Analyzer Average Price by Signal Processing Architecture (2021-2026) & (USD/Unit)

Table 60. World Multichannel Analyzer Average Price by Signal Processing Architecture (2027-2032) & (USD/Unit)

Table 61. World Multichannel Analyzer Production Value by Level of System Integration, (USD Million), 2021 & 2025 & 2032

Table 62. World Multichannel Analyzer Production by Level of System Integration (2021-2026) & (K Units)

Table 63. World Multichannel Analyzer Production by Level of System Integration (2027-2032) & (K Units)

Table 64. World Multichannel Analyzer Production Value by Level of System Integration (2021-2026) & (USD Million)

Table 65. World Multichannel Analyzer Production Value by Level of System Integration

(2027-2032) & (USD Million)

Table 66. World Multichannel Analyzer Average Price by Level of System Integration (2021-2026) & (USD/Unit)

Table 67. World Multichannel Analyzer Average Price by Level of System Integration (2027-2032) & (USD/Unit)

Table 68. World Multichannel Analyzer Production Value by Compatible Detector Type, (USD Million), 2021 & 2025 & 2032

Table 69. World Multichannel Analyzer Production by Compatible Detector Type (2021-2026) & (K Units)

Table 70. World Multichannel Analyzer Production by Compatible Detector Type (2027-2032) & (K Units)

Table 71. World Multichannel Analyzer Production Value by Compatible Detector Type (2021-2026) & (USD Million)

Table 72. World Multichannel Analyzer Production Value by Compatible Detector Type (2027-2032) & (USD Million)

Table 73. World Multichannel Analyzer Average Price by Compatible Detector Type (2021-2026) & (USD/Unit)

Table 74. World Multichannel Analyzer Average Price by Compatible Detector Type (2027-2032) & (USD/Unit)

Table 75. World Multichannel Analyzer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Multichannel Analyzer Production by Application (2021-2026) & (K Units)

Table 77. World Multichannel Analyzer Production by Application (2027-2032) & (K Units)

Table 78. World Multichannel Analyzer Production Value by Application (2021-2026) & (USD Million)

Table 79. World Multichannel Analyzer Production Value by Application (2027-2032) & (USD Million)

Table 80. World Multichannel Analyzer Average Price by Application (2021-2026) & (USD/Unit)

Table 81. World Multichannel Analyzer Average Price by Application (2027-2032) & (USD/Unit)

Table 82. AMETEK Basic Information, Manufacturing Base and Competitors

Table 83. AMETEK Major Business

Table 84. AMETEK Multichannel Analyzer Product and Services

Table 85. AMETEK Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. AMETEK Recent Developments/Updates

Table 87. AMETEK Competitive Strengths & Weaknesses

Table 88. Mirion Technologies Basic Information, Manufacturing Base and Competitors

Table 89. Mirion Technologies Major Business

Table 90. Mirion Technologies Multichannel Analyzer Product and Services

Table 91. Mirion Technologies Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Mirion Technologies Recent Developments/Updates

Table 93. Mirion Technologies Competitive Strengths & Weaknesses

Table 94. CAEN Basic Information, Manufacturing Base and Competitors

Table 95. CAEN Major Business

Table 96. CAEN Multichannel Analyzer Product and Services

Table 97. CAEN Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. CAEN Recent Developments/Updates

Table 99. CAEN Competitive Strengths & Weaknesses

Table 100. Berkeley Nucleonics Basic Information, Manufacturing Base and Competitors

Table 101. Berkeley Nucleonics Major Business

Table 102. Berkeley Nucleonics Multichannel Analyzer Product and Services

Table 103. Berkeley Nucleonics Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Berkeley Nucleonics Recent Developments/Updates

Table 105. Berkeley Nucleonics Competitive Strengths & Weaknesses

Table 106. FAST ComTec Basic Information, Manufacturing Base and Competitors

Table 107. FAST ComTec Major Business

Table 108. FAST ComTec Multichannel Analyzer Product and Services

Table 109. FAST ComTec Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. FAST ComTec Recent Developments/Updates

Table 111. FAST ComTec Competitive Strengths & Weaknesses

Table 112. Kromek Basic Information, Manufacturing Base and Competitors

Table 113. Kromek Major Business

Table 114. Kromek Multichannel Analyzer Product and Services

Table 115. Kromek Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Kromek Recent Developments/Updates

- Table 117. Kromek Competitive Strengths & Weaknesses
- Table 118. Bridgeport Instruments Basic Information, Manufacturing Base and Competitors
- Table 119. Bridgeport Instruments Major Business
- Table 120. Bridgeport Instruments Multichannel Analyzer Product and Services
- Table 121. Bridgeport Instruments Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 122. Bridgeport Instruments Recent Developments/Updates
- Table 123. Bridgeport Instruments Competitive Strengths & Weaknesses
- Table 124. Baltic Scientific Instruments Basic Information, Manufacturing Base and Competitors
- Table 125. Baltic Scientific Instruments Major Business
- Table 126. Baltic Scientific Instruments Multichannel Analyzer Product and Services
- Table 127. Baltic Scientific Instruments Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 128. Baltic Scientific Instruments Recent Developments/Updates
- Table 129. Baltic Scientific Instruments Competitive Strengths & Weaknesses
- Table 130. GBS Elektronik Basic Information, Manufacturing Base and Competitors
- Table 131. GBS Elektronik Major Business
- Table 132. GBS Elektronik Multichannel Analyzer Product and Services
- Table 133. GBS Elektronik Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 134. GBS Elektronik Recent Developments/Updates
- Table 135. GBS Elektronik Competitive Strengths & Weaknesses
- Table 136. PHYWE Basic Information, Manufacturing Base and Competitors
- Table 137. PHYWE Major Business
- Table 138. PHYWE Multichannel Analyzer Product and Services
- Table 139. PHYWE Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 140. PHYWE Recent Developments/Updates
- Table 141. PHYWE Competitive Strengths & Weaknesses
- Table 142. LabLogic Basic Information, Manufacturing Base and Competitors
- Table 143. LabLogic Major Business
- Table 144. LabLogic Multichannel Analyzer Product and Services
- Table 145. LabLogic Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. LabLogic Recent Developments/Updates

Table 147. LabLogic Competitive Strengths & Weaknesses

Table 148. Hidex Basic Information, Manufacturing Base and Competitors

Table 149. Hidex Major Business

Table 150. Hidex Multichannel Analyzer Product and Services

Table 151. Hidex Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Hidex Recent Developments/Updates

Table 153. Hidex Competitive Strengths & Weaknesses

Table 154. Jiechuang Nuclear Instrument (Beijing) Technology Basic Information, Manufacturing Base and Competitors

Table 155. Jiechuang Nuclear Instrument (Beijing) Technology Major Business

Table 156. Jiechuang Nuclear Instrument (Beijing) Technology Multichannel Analyzer Product and Services

Table 157. Jiechuang Nuclear Instrument (Beijing) Technology Multichannel Analyzer Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Jiechuang Nuclear Instrument (Beijing) Technology Recent Developments/Updates

Table 159. Jiechuang Nuclear Instrument (Beijing) Technology Competitive Strengths & Weaknesses

Table 160. Global Key Players of Multichannel Analyzer Upstream (Raw Materials)

Table 161. Global Multichannel Analyzer Typical Customers

Table 162. Multichannel Analyzer Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Multichannel Analyzer Picture

Figure 2. World Multichannel Analyzer Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Multichannel Analyzer Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 5. World Multichannel Analyzer Average Price (2021-2032) & (USD/Unit)

Figure 6. World Multichannel Analyzer Production Value Market Share by Region (2021-2032)

Figure 7. World Multichannel Analyzer Production Market Share by Region (2021-2032)

Figure 8. North America Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 9. Germany Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 10. Italy Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 11. United Kingdom Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 12. China Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 13. Latvia Multichannel Analyzer Production (2021-2032) & (K Units)

Figure 14. Multichannel Analyzer Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 17. World Multichannel Analyzer Consumption Market Share by Region (2021-2032)

Figure 18. United States Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 19. China Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 20. Europe Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 21. Japan Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 22. South Korea Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 24. India Multichannel Analyzer Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Multichannel Analyzer by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Multichannel Analyzer Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Multichannel Analyzer Markets in 2025

Figure 28. United States VS China: Multichannel Analyzer Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Multichannel Analyzer Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Multichannel Analyzer Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Multichannel Analyzer Production Market Share 2025

Figure 32. China Based Manufacturers Multichannel Analyzer Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Multichannel Analyzer Production Market Share 2025

Figure 34. World Multichannel Analyzer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Multichannel Analyzer Production Value Market Share by Type in 2025

Figure 36. Portable

Figure 37. Bench-top

Figure 38. World Multichannel Analyzer Production Market Share by Type (2021-2032)

Figure 39. World Multichannel Analyzer Production Value Market Share by Type (2021-2032)

Figure 40. World Multichannel Analyzer Average Price by Type (2021-2032) & (USD/Unit)

Figure 41. World Multichannel Analyzer Production Value by Signal Processing Architecture, (USD Million), 2021 & 2025 & 2032

Figure 42. World Multichannel Analyzer Production Value Market Share by Signal Processing Architecture in 2025

Figure 43. Analog Multichannel Analyzer

Figure 44. Digital Multichannel Analyzer

Figure 45. World Multichannel Analyzer Production Market Share by Signal Processing Architecture (2021-2032)

Figure 46. World Multichannel Analyzer Production Value Market Share by Signal Processing Architecture (2021-2032)

Figure 47. World Multichannel Analyzer Average Price by Signal Processing Architecture (2021-2032) & (USD/Unit)

Figure 48. World Multichannel Analyzer Production Value by Level of System Integration, (USD Million), 2021 & 2025 & 2032

Figure 49. World Multichannel Analyzer Production Value Market Share by Level of System Integration in 2025

Figure 50. Stand-alone MCA

Figure 51. NIM Module MCA

Figure 52. Tube-base Integrated MCA

Figure 53. Workstation Integrated MCA

Figure 54. Embedded/OEM MCA

Figure 55. World Multichannel Analyzer Production Market Share by Level of System Integration (2021-2032)

Figure 56. World Multichannel Analyzer Production Value Market Share by Level of System Integration (2021-2032)

Figure 57. World Multichannel Analyzer Average Price by Level of System Integration (2021-2032) & (USD/Unit)

Figure 58. World Multichannel Analyzer Production Value by Compatible Detector Type, (USD Million), 2021 & 2025 & 2032

Figure 59. World Multichannel Analyzer Production Value Market Share by Compatible Detector Type in 2025

Figure 60. Scintillation Detector MCA

Figure 61. Semiconductor Detector MCA

Figure 62. Universal Detector-Compatible MCA

Figure 63. World Multichannel Analyzer Production Market Share by Compatible Detector Type (2021-2032)

Figure 64. World Multichannel Analyzer Production Value Market Share by Compatible Detector Type (2021-2032)

Figure 65. World Multichannel Analyzer Average Price by Compatible Detector Type (2021-2032) & (USD/Unit)

Figure 66. World Multichannel Analyzer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World Multichannel Analyzer Production Value Market Share by Application in 2025

Figure 68. Environmental Monitoring

Figure 69. Pharmaceutical Manufacturing

Figure 70. Food Safety

Figure 71. Metal Analysis

Figure 72. Others

Figure 73. World Multichannel Analyzer Production Market Share by Application (2021-2032)

Figure 74. World Multichannel Analyzer Production Value Market Share by Application (2021-2032)

Figure 75. World Multichannel Analyzer Average Price by Application (2021-2032) & (USD/Unit)

Figure 76. Multichannel Analyzer Industry Chain

Figure 77. Multichannel Analyzer Procurement Model

Figure 78. Multichannel Analyzer Sales Model

Figure 79. Multichannel Analyzer Sales Channels, Direct Sales, and Distribution

Figure 80. Methodology

Figure 81. Research Process and Data Source

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