

Global Diamond NV-center Quantum Computing Education System Market Growth 2026-2032

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Abstracts

The global Diamond NV-center Quantum Computing Education System market size is predicted to grow from US\$ 4.11 million in 2025 to US\$ 12.22 million in 2032; it is expected to grow at a CAGR of 15.4% from 2026 to 2032.

A Diamond NV-center Quantum Computing Education System is a desktop or modular teaching instrument that uses nitrogen-vacancy centers in diamond as controllable quantum systems. By combining laser excitation, fluorescence detection, microwave pulse control, magnetic-field biasing, timing electronics, data acquisition and experiment software, the system enables initialization, manipulation, readout and visualization of spin quantum states in an educational laboratory setting. The product category mainly covers integrated teaching machines, ODMR teaching systems, quantum sensing and quantum computing education kits, NV experiment boards and curriculum-linked software modules for undergraduate laboratories, graduate quantum engineering training and modern physics courses. Typical experiment capabilities include ODMR, Zeeman splitting, Rabi oscillation, Ramsey sequence, spin echo, T1 / T2 measurement, dynamical decoupling, single-qubit gate operation and selected elementary quantum algorithm demonstrations.

Based on our research, the Diamond NV-center Quantum Computing Education System should be understood as a specialized education and laboratory training instrument rather than a scaled-down practical quantum computer. Its core value lies in converting spin resonance, quantum state control, coherence measurement and elementary quantum algorithm demonstrations into repeatable hands-on experiments under room-temperature conditions. This is why diamond NV centers are attractive for teaching: the platform can integrate optics, microwave control, magnetic-field biasing, photon detection and software-driven pulse sequences without the infrastructure burden

typically associated with cryogenic or vacuum-based quantum hardware. Under the narrow scope adopted in this report, the market includes only hardware systems or modular kits that explicitly use diamond NV centers and provide ODMR, spin manipulation or quantum computing / quantum control teaching capabilities.

From the demand side, the sector remains a low-volume, high-ASP, project-based market. Primary customers are university physics departments, quantum engineering programs, modern physics laboratories and professional training platforms. The key growth driver is not industrial deployment of diamond quantum computers, but the expansion of quantum education infrastructure and the need for hands-on training in quantum engineering. The largest uncertainty is the lack of vendor-level revenue disclosure, which requires a conservative model based on supplier count, unit price bands, likely annual shipments and long-tail correction.

From the product roadmap perspective, the market is moving from basic ODMR demonstration systems toward integrated quantum control teaching platforms. Entry-level products demonstrate fluorescence, resonance and magnetic-field splitting, while higher-end systems add pulse control, Rabi and Ramsey experiments, spin echo, dynamical decoupling, single-qubit gates and basic algorithm demonstrations. Future competition will likely focus on ease of use, experiment stability, modular extensibility, curriculum depth and after-sales training. Virtual simulation tools and cloud quantum computing courses may absorb some introductory education demand, but they do not fully replace the pedagogical value of real hardware experiments where students align optics, drive microwave pulses, collect photon signals and analyze decoherence in a physical quantum system.

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

This Insight Report provides a comprehensive analysis of the global Diamond NV-center Quantum Computing Education System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest

development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Diamond NV-center Quantum Computing Education System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Diamond NV-center Quantum Computing Education System market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Diamond NV-center Quantum Computing Education System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Integrated Diamond NV Quantum Computing Teaching System

Modular NV Quantum Experiment Kit

Other

Segmentation by Experiment Capability:

Basic ODMR Experiment

Spin Resonance and Zeeman Experiment

Pulsed Spin Control Experiment

Coherence Measurement Experiment

Quantum Gate and Algorithm Demonstration

Segmentation by System Architecture:

Closed Integrated System

Open Modular System

Segmentation by Optical Readout Configuration:

Wide-field Optical Readout

Confocal Optical Readout

Fiber-coupled Optical Readout

Other Optical Readout

Segmentation by Application:

Undergraduate Physics Teaching

Graduate Quantum Engineering Training

Professional Training and Outreach

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Guoyi Quantum (Hefei) Technology Co., Ltd.

Advanced Quantum GmbH

qutools GmbH

QZabre AG

Spinflex Instruments

KWAN-TEK

Jiuzhang (Jinan) Quantum Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Diamond NV-center Quantum Computing Education System market?

What factors are driving Diamond NV-center Quantum Computing Education System market growth, globally and by region?

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

How do Diamond NV-center Quantum Computing Education System market opportunities vary by end market size?

How does Diamond NV-center Quantum Computing Education System break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Diamond NV-center Quantum Computing Education System Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Diamond NV-center Quantum Computing Education System by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Diamond NV-center Quantum Computing Education System by Country/Region, 2021, 2025 & 2032

2.2 Diamond NV-center Quantum Computing Education System Segment by Type

2.2.1 Integrated Diamond NV Quantum Computing Teaching System

2.2.2 Modular NV Quantum Experiment Kit

2.2.3 Other

2.2.4 Diamond NV-center Quantum Computing Education System Sales by Type

2.2.4.1 Global Diamond NV-center Quantum Computing Education System Sales Market Share by Type (2021-2026)

2.2.4.2 Global Diamond NV-center Quantum Computing Education System Revenue and Market Share by Type (2021-2026)

2.2.4.3 Global Diamond NV-center Quantum Computing Education System Sale Price by Type (2021-2026)

2.3 Diamond NV-center Quantum Computing Education System Segment by Experiment Capability

2.3.1 Basic ODMR Experiment

2.3.2 Spin Resonance and Zeeman Experiment

2.3.3 Pulsed Spin Control Experiment

2.3.4 Coherence Measurement Experiment

2.3.5 Quantum Gate and Algorithm Demonstration

2.3.6 Diamond NV-center Quantum Computing Education System Sales by Experiment Capability

2.3.6.1 Global Diamond NV-center Quantum Computing Education System Sales Market Share by Experiment Capability (2021-2026)

2.3.6.2 Global Diamond NV-center Quantum Computing Education System Revenue and Market Share by Experiment Capability (2021-2026)

2.3.6.3 Global Diamond NV-center Quantum Computing Education System Sale Price by Experiment Capability (2021-2026)

2.4 Diamond NV-center Quantum Computing Education System Segment by System Architecture

2.4.1 Closed Integrated System

2.4.2 Open Modular System

2.4.3 Diamond NV-center Quantum Computing Education System Sales by System Architecture

2.4.3.1 Global Diamond NV-center Quantum Computing Education System Sales Market Share by System Architecture (2021-2026)

2.4.3.2 Global Diamond NV-center Quantum Computing Education System Revenue and Market Share by System Architecture (2021-2026)

2.4.3.3 Global Diamond NV-center Quantum Computing Education System Sale Price by System Architecture (2021-2026)

2.5 Diamond NV-center Quantum Computing Education System Segment by Optical Readout Configuration

2.5.1 Wide-field Optical Readout

2.5.2 Confocal Optical Readout

2.5.3 Fiber-coupled Optical Readout

2.5.4 Other Optical Readout

2.5.5 Diamond NV-center Quantum Computing Education System Sales by Optical Readout Configuration

2.5.5.1 Global Diamond NV-center Quantum Computing Education System Sales Market Share by Optical Readout Configuration (2021-2026)

2.5.5.2 Global Diamond NV-center Quantum Computing Education System Revenue and Market Share by Optical Readout Configuration (2021-2026)

2.5.5.3 Global Diamond NV-center Quantum Computing Education System Sale Price by Optical Readout Configuration (2021-2026)

2.6 Diamond NV-center Quantum Computing Education System Segment by Application

2.6.1 Undergraduate Physics Teaching

2.6.2 Graduate Quantum Engineering Training

2.6.3 Professional Training and Outreach

2.6.4 Other

2.6.5 Diamond NV-center Quantum Computing Education System Sales by Application

2.6.5.1 Global Diamond NV-center Quantum Computing Education System Sale
Market Share by Application (2021-2026)

2.6.5.2 Global Diamond NV-center Quantum Computing Education System Revenue
and Market Share by Application (2021-2026)

2.6.5.3 Global Diamond NV-center Quantum Computing Education System Sale
Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Diamond NV-center Quantum Computing Education System Breakdown
Data by Company

3.1.1 Global Diamond NV-center Quantum Computing Education System Annual
Sales by Company (2021-2026)

3.1.2 Global Diamond NV-center Quantum Computing Education System Sales Market
Share by Company (2021-2026)

3.2 Global Diamond NV-center Quantum Computing Education System Annual
Revenue by Company (2021-2026)

3.2.1 Global Diamond NV-center Quantum Computing Education System Revenue by
Company (2021-2026)

3.2.2 Global Diamond NV-center Quantum Computing Education System Revenue
Market Share by Company (2021-2026)

3.3 Global Diamond NV-center Quantum Computing Education System Sale Price by
Company

3.4 Key Manufacturers Diamond NV-center Quantum Computing Education System
Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Diamond NV-center Quantum Computing Education System
Product Location Distribution

3.4.2 Players Diamond NV-center Quantum Computing Education System Products
Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DIAMOND NV-CENTER QUANTUM

COMPUTING EDUCATION SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Diamond NV-center Quantum Computing Education System Market Size by Geographic Region (2021-2026)

4.1.1 Global Diamond NV-center Quantum Computing Education System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Diamond NV-center Quantum Computing Education System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Diamond NV-center Quantum Computing Education System Market Size by Country/Region (2021-2026)

4.2.1 Global Diamond NV-center Quantum Computing Education System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Diamond NV-center Quantum Computing Education System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Diamond NV-center Quantum Computing Education System Sales Growth

4.4 APAC Diamond NV-center Quantum Computing Education System Sales Growth

4.5 Europe Diamond NV-center Quantum Computing Education System Sales Growth

4.6 Middle East & Africa Diamond NV-center Quantum Computing Education System Sales Growth

5 AMERICAS

5.1 Americas Diamond NV-center Quantum Computing Education System Sales by Country

5.1.1 Americas Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026)

5.1.2 Americas Diamond NV-center Quantum Computing Education System Revenue by Country (2021-2026)

5.2 Americas Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026)

5.3 Americas Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Diamond NV-center Quantum Computing Education System Sales by Region

6.1.1 APAC Diamond NV-center Quantum Computing Education System Sales by Region (2021-2026)

6.1.2 APAC Diamond NV-center Quantum Computing Education System Revenue by Region (2021-2026)

6.2 APAC Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026)

6.3 APAC Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Diamond NV-center Quantum Computing Education System by Country

7.1.1 Europe Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026)

7.1.2 Europe Diamond NV-center Quantum Computing Education System Revenue by Country (2021-2026)

7.2 Europe Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026)

7.3 Europe Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Diamond NV-center Quantum Computing Education System by Country

8.1.1 Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026)

8.1.2 Middle East & Africa Diamond NV-center Quantum Computing Education System Revenue by Country (2021-2026)

8.2 Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026)

8.3 Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Diamond NV-center Quantum Computing Education System

10.3 Manufacturing Process Analysis of Diamond NV-center Quantum Computing Education System

10.4 Industry Chain Structure of Diamond NV-center Quantum Computing Education System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Diamond NV-center Quantum Computing Education System Distributors

11.3 Diamond NV-center Quantum Computing Education System Customer

12 WORLD FORECAST REVIEW FOR DIAMOND NV-CENTER QUANTUM

COMPUTING EDUCATION SYSTEM BY GEOGRAPHIC REGION

12.1 Global Diamond NV-center Quantum Computing Education System Market Size Forecast by Region

12.1.1 Global Diamond NV-center Quantum Computing Education System Forecast by Region (2027-2032)

12.1.2 Global Diamond NV-center Quantum Computing Education System Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Diamond NV-center Quantum Computing Education System Forecast by Type (2027-2032)

12.7 Global Diamond NV-center Quantum Computing Education System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Guoyi Quantum (Hefei) Technology Co., Ltd.

13.1.1 Guoyi Quantum (Hefei) Technology Co., Ltd. Company Information

13.1.2 Guoyi Quantum (Hefei) Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.1.3 Guoyi Quantum (Hefei) Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Guoyi Quantum (Hefei) Technology Co., Ltd. Main Business Overview

13.1.5 Guoyi Quantum (Hefei) Technology Co., Ltd. Latest Developments

13.2 Advanced Quantum GmbH

13.2.1 Advanced Quantum GmbH Company Information

13.2.2 Advanced Quantum GmbH Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.2.3 Advanced Quantum GmbH Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Advanced Quantum GmbH Main Business Overview

13.2.5 Advanced Quantum GmbH Latest Developments

13.3 qutools GmbH

13.3.1 qutools GmbH Company Information

13.3.2 qutools GmbH Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.3.3 qutools GmbH Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 qutools GmbH Main Business Overview

13.3.5 qutools GmbH Latest Developments

13.4 QZabre AG

13.4.1 QZabre AG Company Information

13.4.2 QZabre AG Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.4.3 QZabre AG Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 QZabre AG Main Business Overview

13.4.5 QZabre AG Latest Developments

13.5 Spinflex Instruments

13.5.1 Spinflex Instruments Company Information

13.5.2 Spinflex Instruments Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.5.3 Spinflex Instruments Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Spinflex Instruments Main Business Overview

13.5.5 Spinflex Instruments Latest Developments

13.6 KWAN-TEK

13.6.1 KWAN-TEK Company Information

13.6.2 KWAN-TEK Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.6.3 KWAN-TEK Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 KWAN-TEK Main Business Overview

13.6.5 KWAN-TEK Latest Developments

13.7 Jiuzhang (Jinan) Quantum Technology Co., Ltd.

13.7.1 Jiuzhang (Jinan) Quantum Technology Co., Ltd. Company Information

13.7.2 Jiuzhang (Jinan) Quantum Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

13.7.3 Jiuzhang (Jinan) Quantum Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Jiuzhang (Jinan) Quantum Technology Co., Ltd. Main Business Overview

13.7.5 Jiuzhang (Jinan) Quantum Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Diamond NV-center Quantum Computing Education System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Diamond NV-center Quantum Computing Education System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Integrated Diamond NV Quantum Computing Teaching System

Table 4. Major Players of Modular NV Quantum Experiment Kit

Table 5. Major Players of Other

Table 6. Global Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026) & (Units)

Table 7. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Type (2021-2026)

Table 8. Global Diamond NV-center Quantum Computing Education System Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Type (2021-2026)

Table 10. Global Diamond NV-center Quantum Computing Education System Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Basic ODMR Experiment

Table 12. Major Players of Spin Resonance and Zeeman Experiment

Table 13. Major Players of Pulsed Spin Control Experiment

Table 14. Major Players of Coherence Measurement Experiment

Table 15. Major Players of Quantum Gate and Algorithm Demonstration

Table 16. Global Diamond NV-center Quantum Computing Education System Sales by Experiment Capability (2021-2026) & (Units)

Table 17. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Experiment Capability (2021-2026)

Table 18. Global Diamond NV-center Quantum Computing Education System Revenue by Experiment Capability (2021-2026) & (\$ million)

Table 19. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Experiment Capability (2021-2026)

Table 20. Global Diamond NV-center Quantum Computing Education System Sale Price by Experiment Capability (2021-2026) & (US\$/Unit)

Table 21. Major Players of Closed Integrated System

Table 22. Major Players of Open Modular System

Table 23. Global Diamond NV-center Quantum Computing Education System Sales by System Architecture (2021-2026) & (Units)

Table 24. Global Diamond NV-center Quantum Computing Education System Sales Market Share by System Architecture (2021-2026)

Table 25. Global Diamond NV-center Quantum Computing Education System Revenue by System Architecture (2021-2026) & (\$ million)

Table 26. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by System Architecture (2021-2026)

Table 27. Global Diamond NV-center Quantum Computing Education System Sale Price by System Architecture (2021-2026) & (US\$/Unit)

Table 28. Major Players of Wide-field Optical Readout

Table 29. Major Players of Confocal Optical Readout

Table 30. Major Players of Fiber-coupled Optical Readout

Table 31. Major Players of Other Optical Readout

Table 32. Global Diamond NV-center Quantum Computing Education System Sales by Optical Readout Configuration (2021-2026) & (Units)

Table 33. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Optical Readout Configuration (2021-2026)

Table 34. Global Diamond NV-center Quantum Computing Education System Revenue by Optical Readout Configuration (2021-2026) & (\$ million)

Table 35. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Optical Readout Configuration (2021-2026)

Table 36. Global Diamond NV-center Quantum Computing Education System Sale Price by Optical Readout Configuration (2021-2026) & (US\$/Unit)

Table 37. Global Diamond NV-center Quantum Computing Education System Sale by Application (2021-2026) & (Units)

Table 38. Global Diamond NV-center Quantum Computing Education System Sale Market Share by Application (2021-2026)

Table 39. Global Diamond NV-center Quantum Computing Education System Revenue by Application (2021-2026) & (\$ million)

Table 40. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Application (2021-2026)

Table 41. Global Diamond NV-center Quantum Computing Education System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 42. Global Diamond NV-center Quantum Computing Education System Sales by Company (2021-2026) & (Units)

Table 43. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Company (2021-2026)

Table 44. Global Diamond NV-center Quantum Computing Education System Revenue

by Company (2021-2026) & (\$ millions)

Table 45. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Company (2021-2026)

Table 46. Global Diamond NV-center Quantum Computing Education System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 47. Key Manufacturers Diamond NV-center Quantum Computing Education System Producing Area Distribution and Sales Area

Table 48. Players Diamond NV-center Quantum Computing Education System Products Offered

Table 49. Diamond NV-center Quantum Computing Education System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 50. New Products and Potential Entrants

Table 51. Market M&A Activity & Strategy

Table 52. Global Diamond NV-center Quantum Computing Education System Sales by Geographic Region (2021-2026) & (Units)

Table 53. Global Diamond NV-center Quantum Computing Education System Sales Market Share Geographic Region (2021-2026)

Table 54. Global Diamond NV-center Quantum Computing Education System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 55. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Geographic Region (2021-2026)

Table 56. Global Diamond NV-center Quantum Computing Education System Sales by Country/Region (2021-2026) & (Units)

Table 57. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Country/Region (2021-2026)

Table 58. Global Diamond NV-center Quantum Computing Education System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 59. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Country/Region (2021-2026)

Table 60. Americas Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026) & (Units)

Table 61. Americas Diamond NV-center Quantum Computing Education System Sales Market Share by Country (2021-2026)

Table 62. Americas Diamond NV-center Quantum Computing Education System Revenue by Country (2021-2026) & (\$ millions)

Table 63. Americas Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026) & (Units)

Table 64. Americas Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026) & (Units)

Table 65. APAC Diamond NV-center Quantum Computing Education System Sales by Region (2021-2026) & (Units)

Table 66. APAC Diamond NV-center Quantum Computing Education System Sales Market Share by Region (2021-2026)

Table 67. APAC Diamond NV-center Quantum Computing Education System Revenue by Region (2021-2026) & (\$ millions)

Table 68. APAC Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026) & (Units)

Table 69. APAC Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026) & (Units)

Table 70. Europe Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026) & (Units)

Table 71. Europe Diamond NV-center Quantum Computing Education System Revenue by Country (2021-2026) & (\$ millions)

Table 72. Europe Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026) & (Units)

Table 73. Europe Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026) & (Units)

Table 74. Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Country (2021-2026) & (Units)

Table 75. Middle East & Africa Diamond NV-center Quantum Computing Education System Revenue Market Share by Country (2021-2026)

Table 76. Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Type (2021-2026) & (Units)

Table 77. Middle East & Africa Diamond NV-center Quantum Computing Education System Sales by Application (2021-2026) & (Units)

Table 78. Key Market Drivers & Growth Opportunities of Diamond NV-center Quantum Computing Education System

Table 79. Key Market Challenges & Risks of Diamond NV-center Quantum Computing Education System

Table 80. Key Industry Trends of Diamond NV-center Quantum Computing Education System

Table 81. Diamond NV-center Quantum Computing Education System Raw Material

Table 82. Key Suppliers of Raw Materials

Table 83. Diamond NV-center Quantum Computing Education System Distributors List

Table 84. Diamond NV-center Quantum Computing Education System Customer List

Table 85. Global Diamond NV-center Quantum Computing Education System Sales Forecast by Region (2027-2032) & (Units)

Table 86. Global Diamond NV-center Quantum Computing Education System Revenue

Forecast by Region (2027-2032) & (\$ millions)

Table 87. Americas Diamond NV-center Quantum Computing Education System Sales

Forecast by Country (2027-2032) & (Units)

Table 88. Americas Diamond NV-center Quantum Computing Education System Annual

Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. APAC Diamond NV-center Quantum Computing Education System Sales

Forecast by Region (2027-2032) & (Units)

Table 90. APAC Diamond NV-center Quantum Computing Education System Annual

Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 91. Europe Diamond NV-center Quantum Computing Education System Sales

Forecast by Country (2027-2032) & (Units)

Table 92. Europe Diamond NV-center Quantum Computing Education System Revenue

Forecast by Country (2027-2032) & (\$ millions)

Table 93. Middle East & Africa Diamond NV-center Quantum Computing Education

System Sales Forecast by Country (2027-2032) & (Units)

Table 94. Middle East & Africa Diamond NV-center Quantum Computing Education

System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. Global Diamond NV-center Quantum Computing Education System Sales

Forecast by Type (2027-2032) & (Units)

Table 96. Global Diamond NV-center Quantum Computing Education System Revenue

Forecast by Type (2027-2032) & (\$ millions)

Table 97. Global Diamond NV-center Quantum Computing Education System Sales

Forecast by Application (2027-2032) & (Units)

Table 98. Global Diamond NV-center Quantum Computing Education System Revenue

Forecast by Application (2027-2032) & (\$ millions)

Table 99. Guoyi Quantum (Hefei) Technology Co., Ltd. Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 100. Guoyi Quantum (Hefei) Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 101. Guoyi Quantum (Hefei) Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Guoyi Quantum (Hefei) Technology Co., Ltd. Main Business

Table 103. Guoyi Quantum (Hefei) Technology Co., Ltd. Latest Developments

Table 104. Advanced Quantum GmbH Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 105. Advanced Quantum GmbH Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 106. Advanced Quantum GmbH Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Advanced Quantum GmbH Main Business

Table 108. Advanced Quantum GmbH Latest Developments

Table 109. qutools GmbH Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 110. qutools GmbH Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 111. qutools GmbH Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. qutools GmbH Main Business

Table 113. qutools GmbH Latest Developments

Table 114. QZabre AG Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 115. QZabre AG Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 116. QZabre AG Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. QZabre AG Main Business

Table 118. QZabre AG Latest Developments

Table 119. Spinflex Instruments Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 120. Spinflex Instruments Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 121. Spinflex Instruments Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Spinflex Instruments Main Business

Table 123. Spinflex Instruments Latest Developments

Table 124. KWAN-TEK Basic Information, Diamond NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 125. KWAN-TEK Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 126. KWAN-TEK Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. KWAN-TEK Main Business

Table 128. KWAN-TEK Latest Developments

Table 129. Jiuzhang (Jinan) Quantum Technology Co., Ltd. Basic Information, Diamond

NV-center Quantum Computing Education System Manufacturing Base, Sales Area and Its Competitors

Table 130. Jiuzhang (Jinan) Quantum Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Product Portfolios and Specifications

Table 131. Jiuzhang (Jinan) Quantum Technology Co., Ltd. Diamond NV-center Quantum Computing Education System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Jiuzhang (Jinan) Quantum Technology Co., Ltd. Main Business

Table 133. Jiuzhang (Jinan) Quantum Technology Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Diamond NV-center Quantum Computing Education System

Figure 2. Diamond NV-center Quantum Computing Education System Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Diamond NV-center Quantum Computing Education System Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Diamond NV-center Quantum Computing Education System Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Diamond NV-center Quantum Computing Education System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Diamond NV-center Quantum Computing Education System Sales Market Share by Country/Region (2025)

Figure 10. Diamond NV-center Quantum Computing Education System Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Integrated Diamond NV Quantum Computing Teaching System

Figure 12. Product Picture of Modular NV Quantum Experiment Kit

Figure 13. Product Picture of Other

Figure 14. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Type in 2026

Figure 15. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Basic ODMR Experiment

Figure 17. Product Picture of Spin Resonance and Zeeman Experiment

Figure 18. Product Picture of Pulsed Spin Control Experiment

Figure 19. Product Picture of Coherence Measurement Experiment

Figure 20. Product Picture of Quantum Gate and Algorithm Demonstration

Figure 21. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Experiment Capability in 2026

Figure 22. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Experiment Capability (2021-2026)

Figure 23. Product Picture of Closed Integrated System

Figure 24. Product Picture of Open Modular System

Figure 25. Global Diamond NV-center Quantum Computing Education System Sales Market Share by System Architecture in 2026

Figure 26. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by System Architecture (2021-2026)

Figure 27. Product Picture of Wide-field Optical Readout

Figure 28. Product Picture of Confocal Optical Readout

Figure 29. Product Picture of Fiber-coupled Optical Readout

Figure 30. Product Picture of Other Optical Readout

Figure 31. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Optical Readout Configuration in 2026

Figure 32. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Optical Readout Configuration (2021-2026)

Figure 33. Diamond NV-center Quantum Computing Education System Consumed in Undergraduate Physics Teaching

Figure 34. Global Diamond NV-center Quantum Computing Education System Market: Undergraduate Physics Teaching (2021-2026) & (Units)

Figure 35. Diamond NV-center Quantum Computing Education System Consumed in Graduate Quantum Engineering Training

Figure 36. Global Diamond NV-center Quantum Computing Education System Market: Graduate Quantum Engineering Training (2021-2026) & (Units)

Figure 37. Diamond NV-center Quantum Computing Education System Consumed in Professional Training and Outreach

Figure 38. Global Diamond NV-center Quantum Computing Education System Market: Professional Training and Outreach (2021-2026) & (Units)

Figure 39. Diamond NV-center Quantum Computing Education System Consumed in Other

Figure 40. Global Diamond NV-center Quantum Computing Education System Market: Other (2021-2026) & (Units)

Figure 41. Global Diamond NV-center Quantum Computing Education System Sale Market Share by Application (2025)

Figure 42. Global Diamond NV-center Quantum Computing Education System Revenue Market Share by Application in 2025

Figure 43. Diamond NV-center Quantum Computing Education System Sales by Company in 2025 (Units)

Figure 44. Global Diamond NV-center Quantum Computing Education System Sales Market Share by Company in 2025

Figure 45. Diamond NV-center Quantum Computing Education System Revenue by Company in 2025 (\$ millions)

Figure 46. Global Diamond NV-center Quantum Computing Education System Revenue

Market Share by Company in 2025

Figure 47. Global Diamond NV-center Quantum Computing Education System Sales
Market Share by Geographic Region (2021-2026)

Figure 48. Global Diamond NV-center Quantum Computing Education System Revenue
Market Share by Geographic Region in 2025

Figure 49. Americas Diamond NV-center Quantum Computing Education System Sales
2021-2026 (Units)

Figure 50. Americas Diamond NV-center Quantum Computing Education System
Revenue 2021-2026 (\$ millions)

Figure 51. APAC Diamond NV-center Quantum Computing Education System Sales
2021-2026 (Units)

Figure 52. APAC Diamond NV-center Quantum Computing Education System Revenue
2021-2026 (\$ millions)

Figure 53. Europe Diamond NV-center Quantum Computing Education System Sales
2021-2026 (Units)

Figure 54. Europe Diamond NV-center Quantum Computing Education System
Revenue 2021-2026 (\$ millions)

Figure 55. Middle East & Africa Diamond NV-center Quantum Computing Education
System Sales 2021-2026 (Units)

Figure 56. Middle East & Africa Diamond NV-center Quantum Computing Education
System Revenue 2021-2026 (\$ millions)

Figure 57. Americas Diamond NV-center Quantum Computing Education System Sales
Market Share by Country in 2025

Figure 58. Americas Diamond NV-center Quantum Computing Education System
Revenue Market Share by Country (2021-2026)

Figure 59. Americas Diamond NV-center Quantum Computing Education System Sales
Market Share by Type (2021-2026)

Figure 60. Americas Diamond NV-center Quantum Computing Education System Sales
Market Share by Application (2021-2026)

Figure 61. United States Diamond NV-center Quantum Computing Education System
Revenue Growth 2021-2026 (\$ millions)

Figure 62. Canada Diamond NV-center Quantum Computing Education System
Revenue Growth 2021-2026 (\$ millions)

Figure 63. Mexico Diamond NV-center Quantum Computing Education System
Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil Diamond NV-center Quantum Computing Education System Revenue
Growth 2021-2026 (\$ millions)

Figure 65. APAC Diamond NV-center Quantum Computing Education System Sales
Market Share by Region in 2025

Figure 66. APAC Diamond NV-center Quantum Computing Education System Revenue Market Share by Region (2021-2026)

Figure 67. APAC Diamond NV-center Quantum Computing Education System Sales Market Share by Type (2021-2026)

Figure 68. APAC Diamond NV-center Quantum Computing Education System Sales Market Share by Application (2021-2026)

Figure 69. China Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 73. India Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe Diamond NV-center Quantum Computing Education System Sales Market Share by Country in 2025

Figure 77. Europe Diamond NV-center Quantum Computing Education System Revenue Market Share by Country (2021-2026)

Figure 78. Europe Diamond NV-center Quantum Computing Education System Sales Market Share by Type (2021-2026)

Figure 79. Europe Diamond NV-center Quantum Computing Education System Sales Market Share by Application (2021-2026)

Figure 80. Germany Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 81. France Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa Diamond NV-center Quantum Computing Education

System Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa Diamond NV-center Quantum Computing Education System Sales Market Share by Type (2021-2026)

Figure 87. Middle East & Africa Diamond NV-center Quantum Computing Education System Sales Market Share by Application (2021-2026)

Figure 88. Egypt Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries Diamond NV-center Quantum Computing Education System Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of Diamond NV-center Quantum Computing Education System in 2026

Figure 94. Manufacturing Process Analysis of Diamond NV-center Quantum Computing Education System

Figure 95. Industry Chain Structure of Diamond NV-center Quantum Computing Education System

Figure 96. Channels of Distribution

Figure 97. Global Diamond NV-center Quantum Computing Education System Sales Market Forecast by Region (2027-2032)

Figure 98. Global Diamond NV-center Quantum Computing Education System Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global Diamond NV-center Quantum Computing Education System Sales Market Share Forecast by Type (2027-2032)

Figure 100. Global Diamond NV-center Quantum Computing Education System Revenue Market Share Forecast by Type (2027-2032)

Figure 101. Global Diamond NV-center Quantum Computing Education System Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global Diamond NV-center Quantum Computing Education System Revenue Market Share Forecast by Application (2027-2032)

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