

Global Diamond NV-center Quantum Computing Education System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diamond NV-center Quantum Computing Education System market size is expected to reach \$ 12.26 million by 2032, rising at a market growth of 14.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Diamond NV-center Quantum Computing Education System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond NV-center Quantum Computing Education System 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 Diamond NV-center Quantum Computing Education System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond NV-center Quantum Computing Education System total production and

demand, 2021-2032, (Units)

Global Diamond NV-center Quantum Computing Education System total production value, 2021-2032, (USD Million)

Global Diamond NV-center Quantum Computing Education System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Diamond NV-center Quantum Computing Education System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Diamond NV-center Quantum Computing Education System domestic production, consumption, key domestic manufacturers and share

Global Diamond NV-center Quantum Computing Education System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Diamond NV-center Quantum Computing Education System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Diamond NV-center Quantum Computing Education System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Diamond NV-center Quantum Computing Education System 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 Guoyi Quantum (Hefei) Technology Co., Ltd., Advanced Quantum GmbH, qutools GmbH, QZabre AG, Spinflex Instruments, KWAN-TEK, Jiuzhang (Jinan) Quantum Technology Co., Ltd., 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 Diamond NV-center Quantum Computing Education System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Diamond NV-center Quantum Computing Education System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond NV-center Quantum Computing Education System Market, Segmentation by Type:

Integrated Diamond NV Quantum Computing Teaching System

Modular NV Quantum Experiment Kit

Other

Global Diamond NV-center Quantum Computing Education System Market, Segmentation by Experiment Capability:

Basic ODMR Experiment

Spin Resonance and Zeeman Experiment

Pulsed Spin Control Experiment

Coherence Measurement Experiment

Quantum Gate and Algorithm Demonstration

Global Diamond NV-center Quantum Computing Education System Market,
Segmentation by System Architecture:

Closed Integrated System

Open Modular System

Global Diamond NV-center Quantum Computing Education System Market,
Segmentation by Optical Readout Configuration:

Wide-field Optical Readout

Confocal Optical Readout

Fiber-coupled Optical Readout

Other Optical Readout

Global Diamond NV-center Quantum Computing Education System Market,
Segmentation by Application:

Undergraduate Physics Teaching

Graduate Quantum Engineering Training

Professional Training and Outreach

Other

Companies Profiled:

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 Answered:

1. How big is the global Diamond NV-center Quantum Computing Education System market?
2. What is the demand of the global Diamond NV-center Quantum Computing Education System market?
3. What is the year over year growth of the global Diamond NV-center Quantum Computing Education System market?
4. What is the production and production value of the global Diamond NV-center Quantum Computing Education System market?
5. Who are the key producers in the global Diamond NV-center Quantum Computing Education System market?
6. What are the growth factors driving the market demand?

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