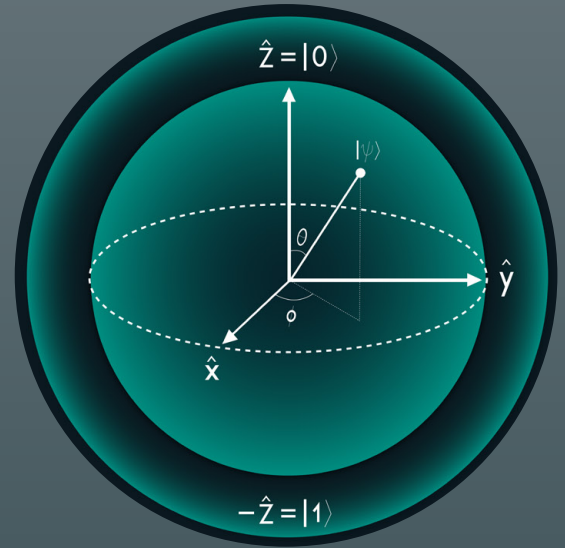


DEMOCRATIZING STEM EDUCATION POPULARIZING QUANTUM COMPUTING



To enable access to knowledge and propel innovation while popularizing quantum education, Vernewell Academy offers opportunities for individuals to learn and use Triangulum Desktop NMR Quantum Computer 3 Qubits. We also offer unique packages to educational institutions and organizations that include customized quantum computing training programs with the purchase of the available SpinQ Quantum Computers.



Triangulum

Desktop NMR Quantum Computer

| 3 Qubits |



NMR Triangulum Desktop quantum computer, 3 qubits, provides a comprehensive solution for quantum computing education.

The device is a real quantum computer based on NMR technology. It is supported by the customized quantum algorithm and circuit design. It can execute 3 qubits of complex quantum algorithms, such as the Quantum Fourier Transform and Grover search algorithm.



Product Highlights

- The product runs stably at room temperature
- Customized quantum algorithm circuit designing and programming;
- Hardware-level pulse designing and engineering
- The product is a true quantum computer based on NMR system, not a quantum simulator;

SpinQuasar

- SpinQuasar is the software on Triangulum for quantum computing education as well as customized quantum computing implementation.
- The product supports the access to quantum computing hardware on multiple terminals through network.
- The product can execute 3-qubit complex quantum algorithms (Quantum Fourier transform, Grover search algorithm, quantum addition and subtraction).
- The product provides an interface library to support developers to access quantum computing functions through a programming interface .
- Rich and complete quantum gate operations with high fidelity.





Specifications :

		Standard
Measurement and Control System of Qubits	Number of Qubits	3
	Coherence Time	300ms
	Single-Qubit Gate Fidelity	0.99
	Two-Qubit Gate Fidelity	0.97
	Single-Qubit Gate Operation	~40
	Two-Qubit Gate Operation	~10
	NMR-Frequency(1H)	36.0 ± 1 MHz
	NMR-Frequency(31P)	33.9 ± 1MHz
	NMR-Frequency(19F)	2
	Number of RF Channels	10ns
	Pulse Resolution	~10us
	90° Pulse Width	0.01°
	Phase Resolution	~20Hz
Magnet	NMR Signal Resolution(FWHM)	NdFeB permanent magnet
	Magnet Type	0.85Tesla ±5%
	Magnetic Density	<0.5m
	Stray Field (distance of the 0.5mT(5G)) line from the magnetic center)	0~40
	Magnet Operation Temperature Range	-
	Magnet Operation Temperature Precision	0.1ppm
Operating Software and Function	Magnet Field Lock Precision	Windows 10
	Operating System	Yes
	Built-in Introduction of Quantum Computing	>18
	Number of Built-in Demonstration Algorithms	Yes
	Custom Algorithms	Yes
	Support SpinQKit	Yes
	Support Master-slave System	No
HardWare	Support Data on Cloud	100~240V AC ; 50/60Hz ; Single Phase
	Mains Power Rating	~60W
	Power Dissipation	610*330*560mm
	Size(H*W*D)	44Kg



 +971 58 540 1480

 info@vernewellgroup.com

 www.vernewell.com
www.vernewellacademy.com

Disclaimer

1. This material was produced and distributed by Vernewell Academy. Information provided herein is copyright Vernewell Academy and/or its affiliates, and or its agents and is protected by both national and international intellectual property laws. Accordingly, any unauthorised copying, reproduction, retransmission, distribution, dissemination, sale, publication, broadcast or other circulation, or exploitation of the information, without prior written approval from Vernewell Academy authorized signatory, will constitute an infringement of that copyright.
2. Information contained herein has been created, compiled, or arrived at by Vernewell Academy, and accordingly, neither Vernewell Academy nor its affiliates accept liability for any loss, damage, injury, or expense however caused arising from any use of, or reliance upon in any manner whatsoever, the information provided herein, thereof or makes any representation or warrants, express or implied, as to its accuracy or completeness. This document is not to be relied upon as such or used in substitution for the exercise of independent judgment. Information and services presented herein reflect an assessment at the date of publication, are preliminary in nature and are subject to change. Vernewell Academy and its affiliates may have issued, or may issue, other documents that are inconsistent with, and reach different conclusions from, the information presented herein. Such documents may reflect different, or/and complimentary information and services based on different views, strategies, target markets, and analytical methods of the individuals who prepared them at the time of preparation.
3. Nothing in these materials shall constitute advice or a recommendation by Vernewell Academy and its affiliates. Nothing contained herein shall constitute an offer, a solicitation of an offer, or any advice or recommendation to conclude any transaction (whether on the indicative terms or otherwise) or any commitment on the part of Vernewell Academy to do so. Any indicative disclosure materials or analyses provided to you in connection therewith have been prepared on parameters that reflect good faith determinations by Vernewell Academy, or that have been expressly specified by you and do not constitute advice by Vernewell Academy.