



# Gemini<sup>★</sup>Mini<sup>★</sup>Pro

Portable NMR Quantum Computer

| 2 Qubits |



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## Features

- ★ Built-in touch screen and control operating systems; No external equipment needed;
- ★ Integrate a 2-qubit real quantum computing system and an up to 8 qubits quantum computing simulator;
- ★ Support users in writing their own quantum computation programs and run test results independently;
- ★ Can be used as a client to connect other desktop NMR quantum computer, to build a quantum computer network;
- ★ Equipped with complete quantum computing teaching materials, and supports teaching and self-study.



## Specifications:

<b>Measurement and Control System of Qubits</b>	Qubits		2
	Coherence Time	T1	10s
		T2	300ms
	Single-Qubit Gate Fidelity		0.996
	Multi-Qubit Gate Fidelity		0.993
	Single-Qubit Gate Operation		80
	Multi-Qubit Gate Operation		40
	NMR-Frequency ( -H / -P / -F )		27.0 ± 1 MHz / 11.0 ± 0.5 MHz / 25.5 ± 1 MHz
	Pulse Resolution		10ns
	90° Pulse Width		~50us
	Phase Resolution		0.01°
<b>Magnet</b>	Spectral Resolution (H Frequency)		~32Hz/1.2ppm
	Magnet Type		NdFeB permanent magnet
	Magnetic Density		0.65Tesla ±5%
	Stray Field		<0.5m
<b>Operating Software and Function</b>	Magnet Operation Temperature Range		0~40°C
	Operating System		Android
	Operating Method		touch pannel
	Built-in Introduction of Quantum Computing		Yes
	Number of Built-in Demostration Algorithms		8
	Spin Dynamics Experiments		Support some experiments
	Experimental Demonstration		>14
	Custom Quantum Circuit Function		Yes
	Auto Calibration		Yes
	Support SpinQit (Quantum Programming Framework)		Yes
	Cloud Data server		Yes
<b>HardWare</b>	Support Screen Mirroring		Optional
	Mains Power Rating		100~240V AC; 50/60Hz; Single Phase
	Power Dissipation		60W
	Size(H*W*D)		200*350*260mm
	Weight		14Kg