

Ordering Information

Product Number	Product Name	Product Model
900-001108-00	Genetic Sequencer	DNBSEQ-T7+RS
940-002663-00	DNBSEQ-T7+RS Stereo-seq Visualization Reagent Set	T7+ STO FCL PE75
940-002669-00	DNBSEQ-T7+RS High-throughput Sequencing Reagent Set	T7+ FCL PE100
940-002666-00	DNBSEQ-T7+RS High-throughput Sequencing Reagent Set	T7+ FCL PE150
940-002665-00	DNBSEQ-T7+RS High-throughput Sequencing Reagent Set	T7+ App-D FCL PE100
940-002668-00	DNBSEQ-T7+RS High-throughput Sequencing Reagent Set	T7+ App-D FCL PE150

Ultra-high-throughput
Gene Sequencer



14Tb+ in 24H



The End of
Compromise.

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DNBSEQ T7+

Ultra-high-throughput Gene Sequencer

As a highly efficient integrated ultra-high-throughput sequencer designed for large-scale sequencing scenarios, powered by MGI's DNBSEQ™ Technology and SM2.0 biochemistry, **T7+** can deliver over 14Tb of high-quality data within 24 hours. Its 7-in-1 modular design enables full automation from sample to report, ensuring a streamlined sequencing experience. With an annual capacity of up to 35,000 whole-genome sequencing (WGS), there is no need for compromise between throughput and speed.



Modular Reagent Cartridge Design

Reduces manual consumable handling, while supporting 50% room-temperature storage and cutting room-temperature transportation volume by 90%.

Ergonomic Design

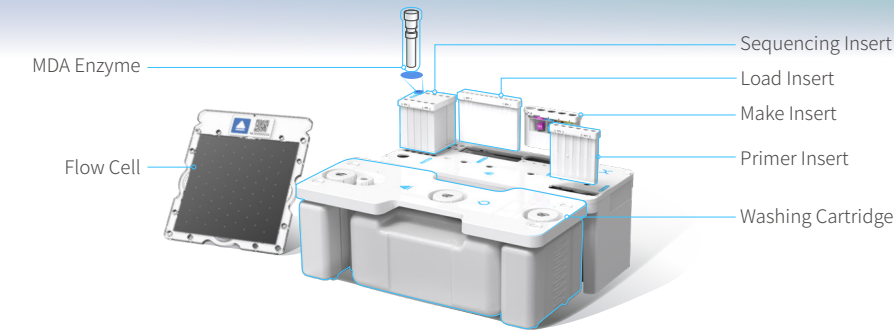
Slim, lightweight body; ergonomically designed compartment; and adjustable screen angle.



Omni-Smart Hub

Operate the sequencer like using a smartphone: check statistics of sequencing runtime, data output, sensor monitoring status, connection status, and more with one click.

User-friendly



Ultra-high Throughput and Speed

Over 14Tb deliverable data within 24h
Over 35,000 WGS/Year



35,000 WGS / Year

7 in 1

Modular and highly-integrated design

Provide a one-stop process, covering DNB preparation, DNB loading, sequencing, WFQ and data compression, along with a pure water container and waste system, which reduces manual steps.



Ultrafast Breakthrough

Deliver more than **14 Tb** of data within 24 hours, with Q40 > 90%

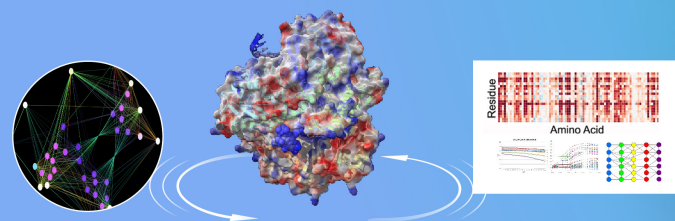
All-Field Empowerment

Spatio-temporal Omics
Proteomics
Agriculture
Clinical Research
Epigenomics
Transcriptomics

Cell-Omics
Population Genomics
Basic Research
Cancer Research
Microbiology
WGS

Intelligent Integration

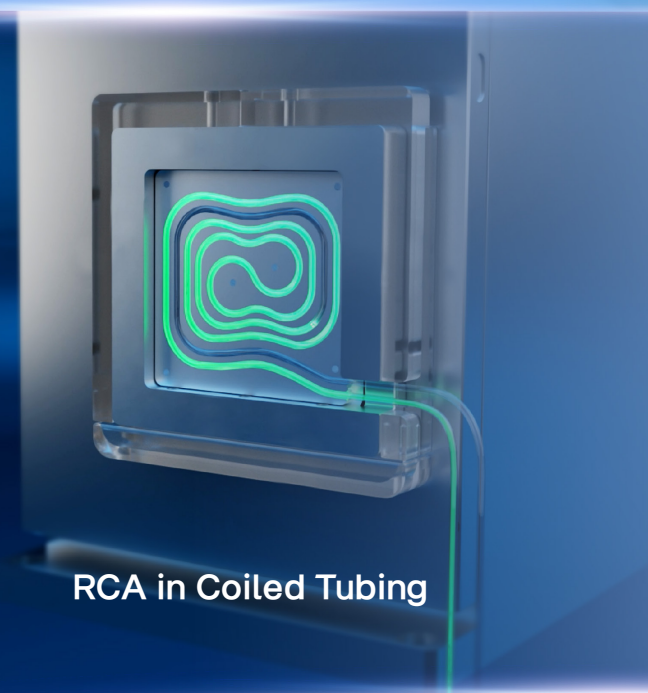
7-in-1 high-integrated instrument design. Modular design reagent cartridge



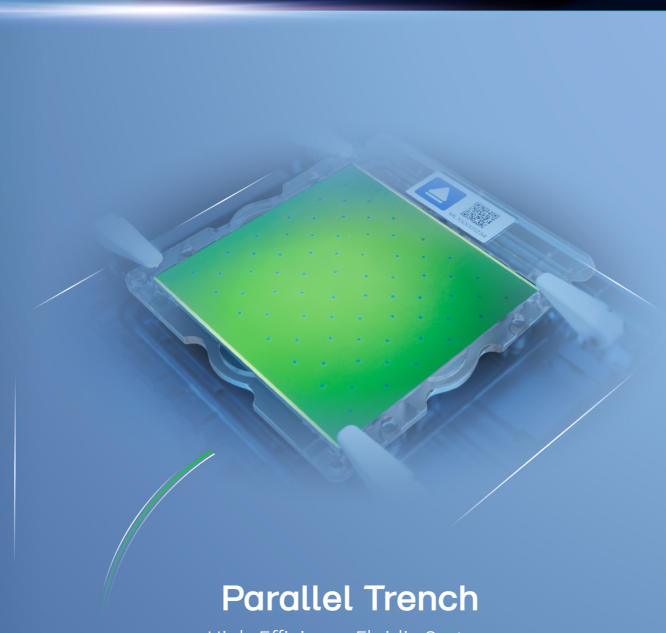
Basecall Dynamic Self-Adaptive
“Design-Select-Test-Learn” Closed-loop Cycle



The proprietary TDI camera
Single-Electron-Level Noise
Reduce the Scanning Time by 50%



RCA in Coiled Tubing



Parallel Trench
High-Efficiency Fluidic System

DNBSEQ™ Technology



Performance Parameter

No. of flow cell per run	Flow cell type	Supported read lengths*	Reads/flow cell**	Data output per run	Q30***	Run time per run****
4	FCL	PE75	11,000M	/	>90%	<14 h
		PE100	12,000M	2.4 Tb~9.6 Tb	>90%	<17 h
		PE150		3.6 Tb~14.4 Tb	>90%	<24 h

* The instrument is equipped with PE150, PE100 and PE75 sequencing modes, and the existing reagent kits support PE150, PE100 and PE75 read length sequencing.

** The maximum number of effective reads are based on a specific standard library, and the actual application library will fluctuate depending on the sample type and library construction method.

*** The percentage of bases above Q30 is obtained by averaging metrics for runs using standard library. Actual performance is influenced by sample type, library quality and type, insert length among other factors.

**** Run time is from DNB making to cal. files generation (including automated wash).

Application Overview

Application type	Requirements	Recommended read length	Recommended sample numbers for a single run on T7+*			
			1*FC	2*FC	3*FC	4*FC
Single cell RNA-Seq	500 M/sample (C4: 10K cells, 50K reads/cell)	PE100	20	40	60	80
Cancer large panel	10 Gb/ sample (5,000X, 1Mb panel)	PE100/PE150	288	576	864	1,152
Transcriptome	6 Gb/ sample	PE150	480	960	1,440	1,920
WGS	100 Gb/ sample (30× average sequencing depth)		28	56	84	112
WGBS	110 Gb/ sample (30× average sequencing depth)		26	52	78	104
Stereo-seq	2,500-3,000 M/ sample (FFPE, 1cm*1cm)	PE75	4	8	12	16
	1,500-2,400 M/ sample (FF, 1cm*1cm)		6	12	18	24

* Sample numbers are calculated considering pooling variation and applications. For reference only.

System Parameter

Power	Power Type	200V-240V~
	Frequency	50/60 Hz
	Rated Power	5000VA
Screen	Type	LCD
	Size	23.8 inches
	Resolution	3840×2160 pixels
Dimensions	1370 mm(W)×1760 mm(H)×848 mm(D)	
Net weight	About 755 kg	
Maximum Sound Pressure Level	65 dBA	
Operating environment requirements	Temperature	15 °C-25 °C
	Relative Hmidity	20%~80%, non-condensing
	Atmospheric Pressure	70 kPa-106 kPa
	Maximum Altitude	3000 m
	Usage Field	Indoor use
	Pollution Degree	2
Storage/Transportation for Machine	Temperature	-20°C~50°C
	Relative Hmidity	15%~85%, non-condensing
	Atmospheric Pressure	70 kPa-106 kPa
Radio-Frequency Identification	Short-Range Radio-Communication Devices	865-868 MHz (For European Union, Singapore) 902-928 MHz (For North America)
Radio-Frequency Output Power	16mW	



About MGI Tech Co., Ltd.

MGI Tech Co., Ltd. (or its subsidiaries, together referred to MGI), is committed to building core tools and technologies that drive innovation in life science. Our focus lies in research & development, manufacturing, and sales of instruments, reagents, and related products in the field of life science and biotechnology. We provide real-time, multi-omics, and full spectrum of digital equipment and systems for precision medicine, agriculture, healthcare and various other industries.

Founded in 2016, MGI has grown into a leader in life science, serving customers across six continents and have established research, manufacturing, training, and after-sales service facilities globally. MGI stands out as one of the few companies capable of independently developing and mass-producing clinical-grade gene sequencers with varying throughput capacities, ranging from Gb to Tb levels. With unparalleled expertise, cutting-edge products, and a commitment to global impact, MGI continues to shape the trajectory of life sciences into the future.

As of December 31, 2025, MGI has a team over 2,195 employees, with research and development personnel accounting for approximately 26.06%. Our business spans over 110 countries and regions worldwide, serving more than 3,800 users.

2,195
Employees

26.06%
R&D Personnel

3,800+
Customers

110+
Countries & Regions