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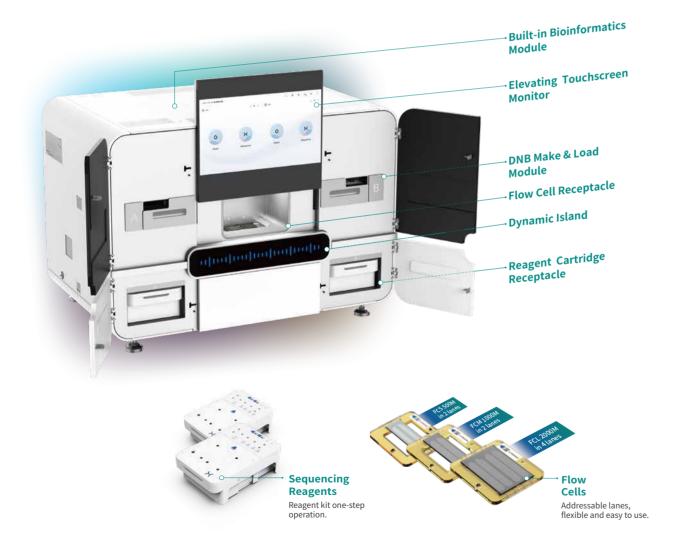


For Research Use Only. Not for use in diagnostic procedures

T-level Benchtop Sequencer

DNBSEQ-T1+

DNBSEQ-T1+ is one of the fastest T-level benchtop sequencers globally, developed with MGl's core DNBSEQ™ sequencing technology. T1+ supports dual flow cell concurrent operation, generating up to 1.2 Tb of sequencing data within 24 hours (600 Gb per flow cell, totaling 1.2 Tb for two flow cells). Additionally, T1+ offers an optional built-in bioinformatics module, enabling automated advanced analysis immediately after the sequencing run. This facilitates a tremendously efficient and simple workflow, thus accelerating the application of omics technology to advance global life sciences and clinical research.



MGI'S PROPRIETARY

DNBSEQ™

TECHNOLOGY

DNBSEQ-T1+



Rapid

24 Hours

PE 150 < 24 Hours 1.2Tb/Run Q40 > 90%

Simple

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Integrated DNB Make & Load Module Reagent Kit One-step Operation Integrated Sequencing and Cleaning



Individually Addressable Lanes Dual-Flow Cell Dual-Configuration

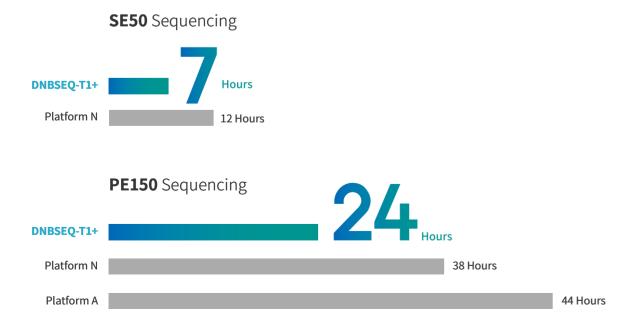
Rapid

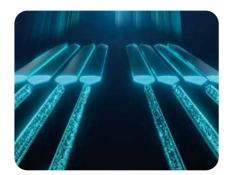
Accelerate the Entire Workflow of Genomics

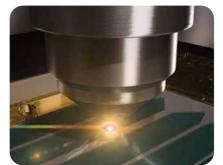


DNBSEQ-T1+ is one of the fastest T-level benchtop sequencers globally, capable of producing 1.2Tb sequencing data within 24 hours, achieving ultimate improvements in sequencing efficiency, quality, and delivery capabilities, and accelerating the entire genomics workflow.

PE150 Within One Day, SE50 Within One Shift









Equivalent Data Output in 1/4 of The Time



High-Efficiency Fluidic System

Fluidics

Delivers extreme flow rates, with an optimized design to save reagents



Low-Noise High-Speed TDI Scanning

Optical

Ultra-Fast Optical Signal Processing

>2[†]

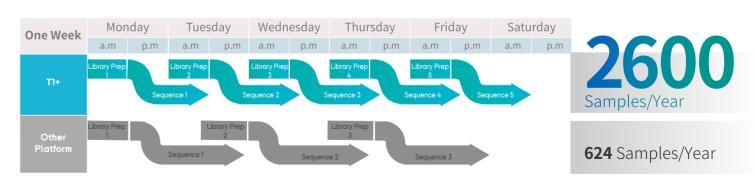
Ultra-High-Density Array Flow Cell

Flow cell

Ultra-High-Density Minimizing Scaning Area

DNBSEQ-T1+ $> 4 \times Platform N$

DNBSEQ-T1+ (PE150<24h): Easy to set up Daily sequencing routine Other platforms (PE150 31~48h): Hard-to-follow working pattern



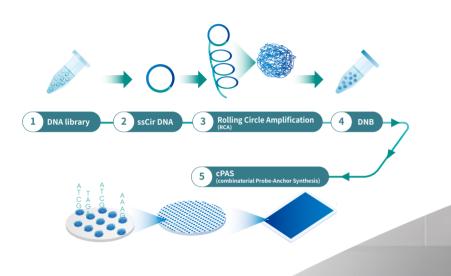
For 30X WGS(FCL PE150)
T1+ Power: 10 FCs/Week, 5 Run/Week
Platform N: 3 FCs/Week

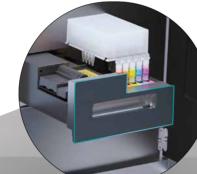
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Simple

Integrated DNB make & load Module

DNBSEQ-T1+ introduces the new DNB M&L (DNB Make & Load) functional module, integrating DNB preparation and loading directly into the sequencer. It enables high-quality, one-click DNB preparation with results ready for sequencing.







DNA Library-to-FastQ in 24 Hours



Dynamic Island

Status Display

Guided User Instruction

Customizable

DNB Make Reagents, Samples
Sequencing Reagent
Flow Cell

Flexible

Individually Addressable Lanes and Automatic Loading System

The DNBSEQ-T1+ sequencing system offers three flow cell specifications ("Large-Medium-Small"): FCS, FCM, and FCL. Each flow cell can independently run different sequencing read lengths or application types. DNBSEQ-T1+ is equipped with an independent and specific lane loading system and also supports various library types (dsDNA、ssCirDNA、DNB).



Dual Flow Cell

Support three loading methods (single-sided/double-sided/rolling)

Dual-Configuration

RS: Support standard FastQ File Output
ARS: Support secondary analysis (WGS/WES)

Custom Primer

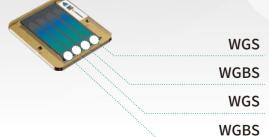
Support custom primers to sequence converted third-party libraries

Multiple Input Types

dsDNA ssCirDNA DNB

No Barcodes Required

Different types of samples (One sample/lane)



Multiplex Multi-application

Mixed samples (N samples/lane)



Transcriptomics (20 samples)

WES (8 samples)

Oncology panel (12 samples)

NIPT (40 samples)

Performance Specifications

	Flow Cell Type****	Lanes/Flow cell	Effective Reads*/- Flow Cell	Read Lengths	Data Output	Q30**	Q40**	Run Time***
	FCL	4	2000M	SE50	100Gb~200Gb	>93%	>90%	7h
				SE100	200Gb~400Gb	>93%	>90%	9.5h
				PE150	600Gb~1.2Tb	>93%	>90%	24h
				SE50	50Gb~100Gb	>93%	>90%	6h
	FCM	2	1000M	SE100	100Gb~200Gb	>93%	>90%	7h
6/				PE150	300Gb~600Gb	>93%	>90%	19.5h
	FCS	2	500M	SE50	25Gb~50Gb	>93%	>90%	4.5h
				SE100	50Gb~100Gb	>93%	>90%	6.5h
				PE150	150Gb~300Gb	>93%	>90%	19h
				PE300	300Gb~600Gb	>85%	>75%	35h

^{*} The effective reads are based on the sequencing of an internal standard library. Actual output may vary depending on sample type and library preparation method.

Application Recommendations

			DNBSEQ-T1+			
Application	Recommended	Recommended	Max. Flow Cells/RUN: 2			
type	data size	read length	1*FCS	1*FCM	1*FCL	
			500M reads	1000M reads	2000M reads	
NIPT/PGS	10M reads/sample	SE50/SE100	40	80	160	
Small RNA	25M reads/sample	SE50	16	32	64	
RNA-Seq	25M reads/sample	SE50	16	32	64	
Metagenomics for pathogen detection	ogen detection 20M reads/sample 3E30/3E100		20	40	80	
Single cell RNA-Seq			1	2	4	
Oncology panel	10Gb/sample (5000X, 1Mb panel)		12	24	48	
Companion Diagnostic Onco panel	1 Gb/sample		120	240	480	
Microbial WGS	1 Gb/sample		120	240	480	
ATO Plex Panel	Respiratory tract panel/ COVID-19 panel: 5M reads/ sample	PE150	80	160	320	
Transcriptomics	6 Gb/sample		20	40	80	
WES	100X average sequencing depth 15 Gb/ sample		8	16	32	
WGS	30X average sequencing depth 100 Gb/ sample		1	2	4	
WGBS	30X average sequencing depth 120 Gb/ sample		1	2	4	
Oncology targeted methylation panel	5 Gb/sample (2000X, 0.5Mb panel)		24	48	96	
16S	0.1M reads/ sample	PE300	1152 (576/lane)	/	/	

^{**} The percentage of bases above Q30, Q40 and run time is the average of an internal standard library over the entire run. Actual performance is affected by factors such as sample type, library quality, and insert fragment length.

^{***} The sequencing time is the statistical duration from ssCirDNA library to Fastq. FCM and FCS are theoretical estimates of duration.

^{****} FCS: Available in H2 2025. FCS PE300 and FCM: Available in H1 2026.

Sequencer System Parameter

Ordering information

Indicator	Product Parameter			
Product Model	Genetic Sequencer DNBSEQ-T1+RS			
Dimensions	1150mm (L)×750mm (W)×810mm (H)			
Net weight	DNBSEQ-T1+RS: < 300 kg (Excluding BIT module)			
	Туре	LCD		
Main Screen	Size	21.5 inches		
	Resolution	1920x1080 pixels		
	Туре	LCD		
Secondary Screen	Size	19 inches		
	Resolution	1920x360 pixels		
	Power Type	200-240 V~ 16A		
Power	Frequency	60/50 Hz		
	Rated Power	2000 W		
	Temperature:	15 °C~30 °C		
Operating environment requirements	Relative humidity:	20% RH~80% RH, non-condensing		
requirements	Atmospheric pressure:	70 kPa~106 kPa		
	Temperature:	-20 °C~50 °C		
Storage/transportation	Relative humidity:	15% RH~85% RH, non-condensing		
	Atmospheric pressure:	70k Pa~106 kPa		

Product Number	Product Name		
900-000991-00	Genetic Sequencer DNBSEQ-T1+RS		
900-000992-00	Genetic Sequencer DNBSEQ-T1+ARS		
940-002566-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ FCL PE150)		
940-002565-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ FCL SE100)		
940-002570-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ FCL SE50)		
940-002576-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ App-D FCL PE150)		
940-002569-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ App-D FCL SE100)		
940-002572-00	DNBSEQ-T1+RS High-throughput Sequencing Reagent Set (T1+ App-D FCL SE50)		



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Employees

32.16%

R&D Personnel

3,000+

Customers

100+ Countries & Regions 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.

HAR HAR SAN DAY

AR RAIL DAY PRO

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

As of June 30, 2024, MGI has a team over 2,670 employees, with research and development personnel accounting for approximately 32.16%. Our business spans over 100 countries and regions worldwide, serving more than 3,000 users.

Vision

Leading Life Science Innovation

Mission

To Develop and Promote Advanced Life Science Tools for

Future Healthcare

Local technical support and Customer Experience Centers (CECs) have been established in multiple countries and regions worldwide to ensure timely and effective technical support and training.

Local warehouses and spare part centers have been established in multiple countries and regions worldwide to ensure the continuous availability of machine parts for maintenance.

Providing installation services and system verification services as needed to ensure smooth implementation and operation. The value-added services are available for personalized services such as secondary relocation.

Online technical support is available globally with a fully functional call center (Toll-Free Hotline 4000-688-114) accessible during workdays from 9:00 AM-12:00 PM and 13:00 PM-18:00 PM (Beijing time, GMT+8).

Responsible for any failure caused by non-human factors and non-force majeure factors within the warranty.

Providing instrument preventive maintenance services within the warranty period, along with a host of available extended warranty support plans to ensure optimal performance and reliability.