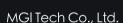


An Ultra-High, Throughput Sequencer

DNBSEQ-T20×2*



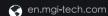




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Version: July 2024 | MGPA0702202

your reference. In no event shall the brochure be regarded as obligations shall be subject to the final executed agreement.



MGI-service@mgi-tech.com



For research use only Not for use in diagnostic procedure







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DNBSEQ-T20 x 2 is a fully automated sequencer comprising all components of a genetic sequencer integrated by robotics to process six slides per run. DNBSEQ-T20×2 achieves remarkable throughput far greater than existing "high-throughput" sequencers, and can drive down sequencing cost to a sub \$100 price per genome as a trailblazer.

>50,000 WGS*/Year

*30×Genome Coverage

Throughput Improvement

Up to 12X

PE100

output per run

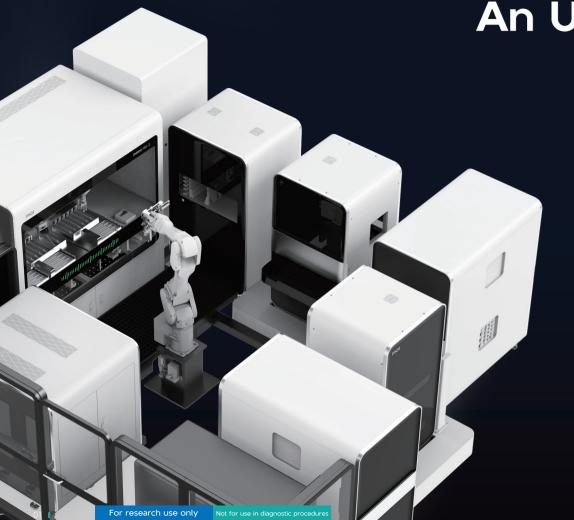
Up to 4.5×

PE150*

16 Tb

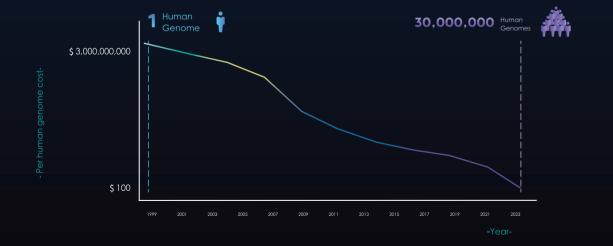
output per run

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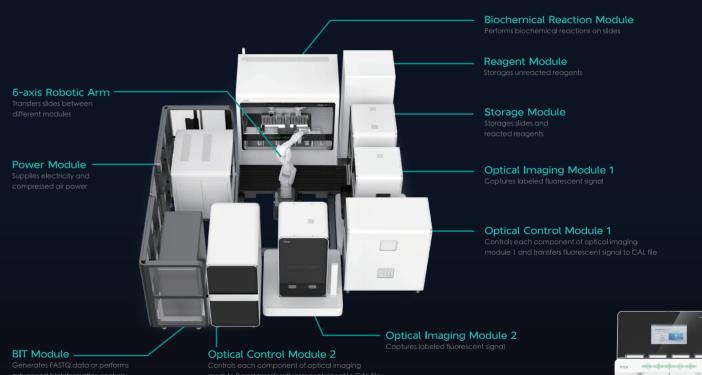


Trailblazing Path To Sub Hundred-dollar Genome

DNBSEQ-T20 x 2 is designed to meet the most challenging sequencing scenarios. It aims to empower large population genome projects around the world, and revolutionize healthcare with OMICS technologies. DNBSEQ-T20 x 2 will be the perfect choice to bring sequencing efficiency and scale to the next level.



Product Components



MGIDL-T20A

Dimension 1400 mm (L) × 865 mm (W) × 1670 mm (H)

Six Super-sized Slides Provide Excellent Performance

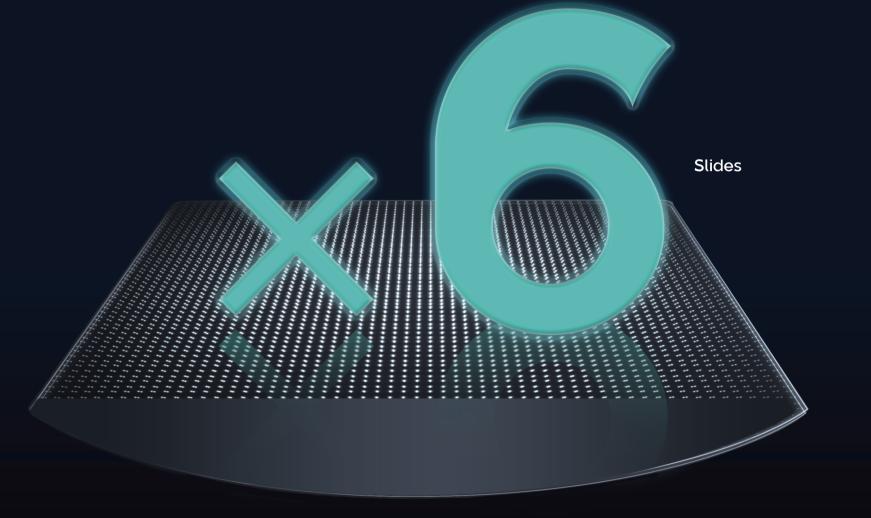
Read Length

DNBSEQ-T20 × 2 supports different sequencing applications to be run on different slides at the same time. Glass covers have been removed from the DNBSEQ-T20 \times 2 slides to facilitate the dip-immersion mode for biochemistry reactions. This allows reagents to be re-circulated for reuse, while achieving high uniformity and stability of reactions.

E100	40 B	48 ID	2.5 d	≥85
ad Length	Effective Reads/Slide	Data Output/Run	Sequencing Time	Q30 (%)+
E150	40 B	72 Tb	3.5 d ⁺⁺	≥85

Q30 (%)+

*The percentage of base above Q30 is the average of an internal standard library over the entire run.



[&]quot;The run time includes slide loading, sequencing, and generation of Cal. file. Cal. file is a binary file format generated by DNBSEQ™ platform basecall software.

Innovative **Dip-Immersion Biochemistry**

DNBSEQ-T20 x 2 adopts an innovative dip-immersion biochemical technology. In contrast to the flow cell, the dip-immersion biochemical reaction is carried out by consecutively immersing multiple sequencing slides (no cover) in the same reagent container, enabling reagent reuse and uniform biochemistry on wafer-sized sequencing arrays.

Powered by DNBSEQ™

Leveraging the core advantages of DNBSEQ™ combined with highly accurate base-calling and copy number correction algorithms, DNBSEQ-T20 × 2 achieves outstanding sequencing performance and exceptional data quality with low duplication rates and ultra-high effective data output.



INCREASED ACCURACY

DNB Making



J DECREASED DUPLICATES



REDUCED INDEX HOPPING











Shape The Future Of Ultra-High Throughput Sequencing

DNBSEQ-T20 x 2 covers all high-throughput sequencing needs in scientific research, including: WGS, single-cell sequencing, stereo-seq, and etc.

Estimated Sample Throughput For Key Applications

Application	Read Length	Reads/Sample	Data/Sample	Depth/Sample	Sample/Slide	Sample/run
WGS	PE100	500 M	100G	30×	72	432
WGS PE100	FE100	700 M	140G	40×	56	336
WGS	PE150	334M	100G	30×	96	576
WG3 FL130	467M	140G	40×	80	480	
Single-cell	PE100	500 M (10000 cells/sample)			60	360
Spatial Omics	PE100	1000 M			24	144

ated executable hybrid pooling solution: WGS+WES+RNA

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Start Sequencing Immediately

We offer a complete package with the DNBSEQ-T20 x 2, including sample preparation reagents and equipment, automated library preparation systems, and ultra-high throughput sequencers. In addition, a range of tools such as massive data management systems and processing modules are available to users.

The One-stop Package



Full Portfolio of DNBSEQ™ Platform



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Hardware Specification

Parameter	Specification
Models	Genetic Sequencer DNBSEQ-T20×2RS
Dimensions	Biochemical Reaction Module: 1750 mm (L)* 1220 mm (W) * 2000 mm (H) DNBSEQ-T20×2RS: 4200 mm (L)* 4800 mm (W) * 2000 mm (H)
Net Weight (without BIT module)	DNBSEQ-T20×2RS: ~3700 kg
Touch Screen	Touch Screen Type: LCD Touch Screen Size: 21.5 inch Touch Screen Resolution: 1920×1080
Power	Rated Voltage: 3~, 380/400 V Rated Frequency: 50 Hz Rated Power: 20000 VA
Operating Environment Requirements	Temperature: 19 °C~22 °C Relative Humidity: 30% RH~70% RH Atmospheric Pressure: 90 kPa~106 kPa
Shipping/Stroage Environment Requirements	Temperature: 15 °C~30 °C Relative Humidity: 30% RH~70% RH Atmospheric Pressure: 90 kPa~106 kPa

^{*}The maximum sound pressure of DNBSEQ-T20×2 is 75 dB (A).

Ordering Information

Cat.No.	Product Name
900-000544-00	Genetic Sequencer DNBSEQ-T20×2RS (CHN-RUO)*
900-000543-00	Genetic Sequencer DNBSEQ-T20×2RS (CE-RUO)*
900-000667-00	Genetic Sequencer DNBSEQ-T20×2RS (US-RUO)*
900-000546-00	DNB Loader MGIDL-T20ARS (CHN-RUO)*
900-000549-00	DNB Loader MGIDL-T20ARS (CE-RUO)*
900-000668-00	DNB Loader DL-T20ARS (US-RUO)*
940-001854-00	DNBSEQ-T20 \times 2RS High-throughput Sequencing Set V2.0 (FCL PE100)
940-000351-00	DNBSEQ-T20 \times 2RS High-throughput Sequencing Set (FCL PE150)

*Unless otherwise informed, this StandardMPS sequencing reagent is not available in Germany, UK, Sweden, and Switzerland.

^{**}The she**||** protection grade of DNBSEQ-T20×2 is **|**PX0.

^{*}All Products labled solely for research use only which means it should not be used for clinical diagnosis.