

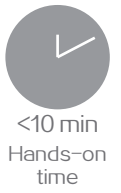
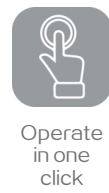
「Portable & Versatile」
Tailored to meet your needs

DNBelab D series
Modular Digital Biolab

DNBSEQ E * series
Portable Genetic Sequencer

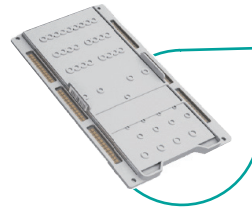


DNBelab D series and DNBSEQ E* series are two types of instrument platforms that enable extensive user customization. Both instruments are portable-sized, all processes can be performed based on preset procedures and require no human intervention. Furthermore, both instruments can be tailored based on specific needs, providing a complete package for various applications.



DNBelab D series

As a configurable lab-on-chip platform, DNBelab D series is built on a digital technology where precise and versatile reagent manipulation as low as 1uL can be achieved. With this instrument, multiple complex biological processes can be performed automatically.



Moving



Dispensing



Merging



Mixing



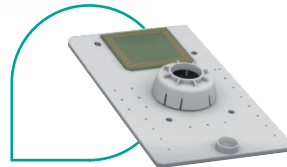
© About Core Technology



DNBSEQ™
core technology

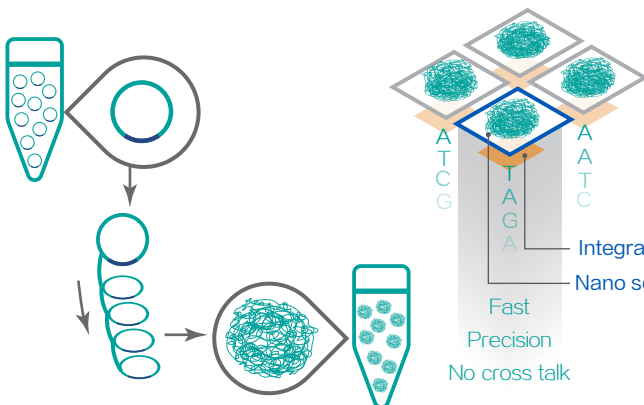


Integrated flow cell
Extreme innovation



DNBSEQ E* series

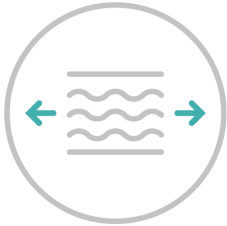
As a portable DNBSEQ™ platform, DNBSEQ E* series breaks the norm by integrating both fluidics and optical systems of a conventional sequencer into the disposable cartridge, resulting in significant reagent volume, shorter run time, and affordable price.



© About Customization



Multi-function biolab



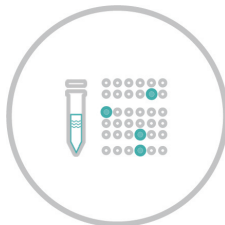
Optical module
Fluorescent measurement



Temperature control module
Thermal cycler and
low temp reagent storage



Magnetic module
Nucleic acid extraction, purification



Fluidics handling module
Precise fluidic control and
reaction mix prep



DNBelab D series



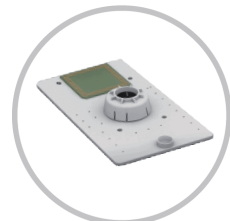
Suitable for various application

Small Whole Genome Sequencing
Pathogen and microbial detection
Targeted sequencing
RNA sequencing
Sequencing Library QC
Training and Education



DNBSEQ E* series

5M, 25M...
Throughput



Microfluidics based
flow cell

SE50, SE100, PE100...
Sequencing strategy



DNBSEQ™
core technology

FASTQ, SNP, CNV...
Bioinformatics analysis



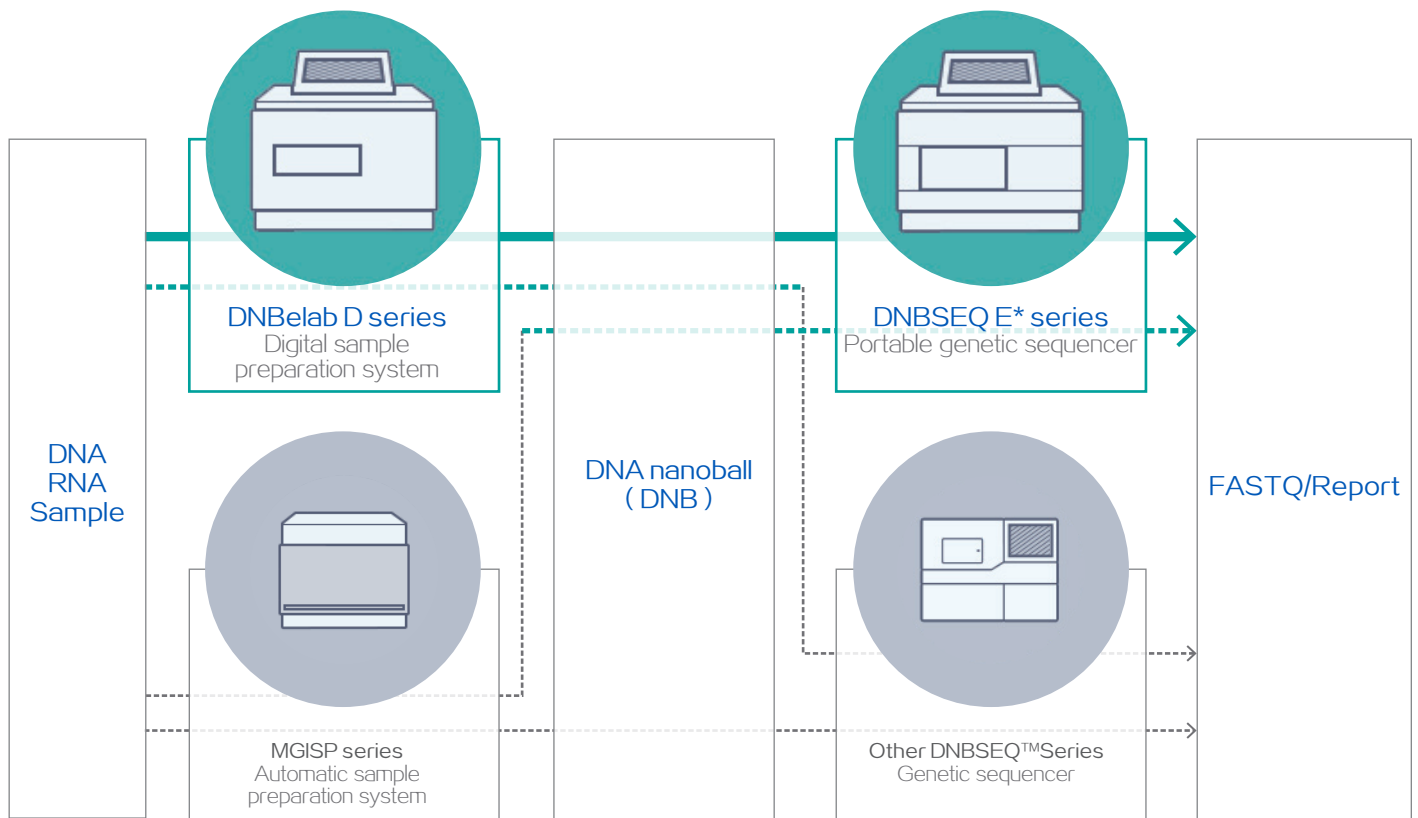
Embedded
computing module

© 「Tailored for your needs」

DNBelab D series and DNBSEQ E* series are fully configurable to meet the requirements for your applications. They can be mixed and matched to accommodate various user needs.

© Total packages for a complete sequencing workflow

MGI offers a variety of automated total packages to cover the entire sequencing workflow from automated sample preparation, high-throughput sequencing to bioinformatic analysis. The total package supports a wide range of applications to enhance your daily sequencing capabilities.



Case 1: Express nucleic acid detection system

Express nucleic acid detection system



*depends on the type of testing reagent kits.

PCR testing



Background:

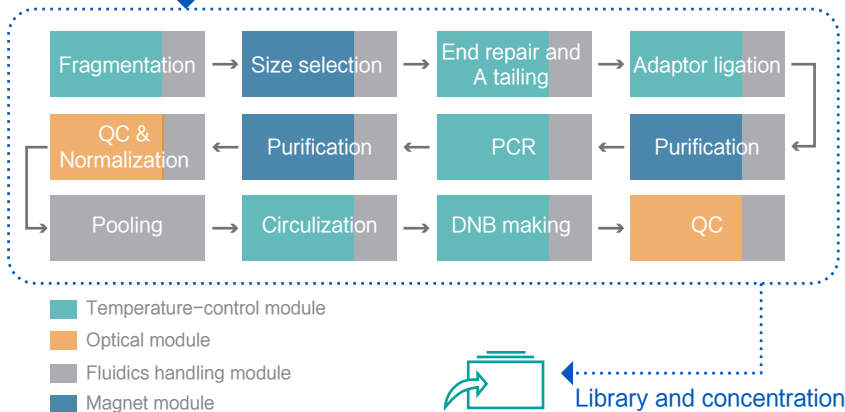
A nucleic acid detection system developed on DNBelab D platform for pathogen (including COVID-19) detection.

Product highlights:

- Fully automated
- Express detection
- Easy to operate
- Enclosed system to prevent cross contamination



Case 2: 4-Channel digital library preparation system



Background:

A 4-channel library preparation system developed on DNBelab D platform for automatic library construction for WGS.

Product highlights:

- Fully automated
- 4 channels in parallel
- Automatic sample pooling based on quantification result
- No cross contamination between samples

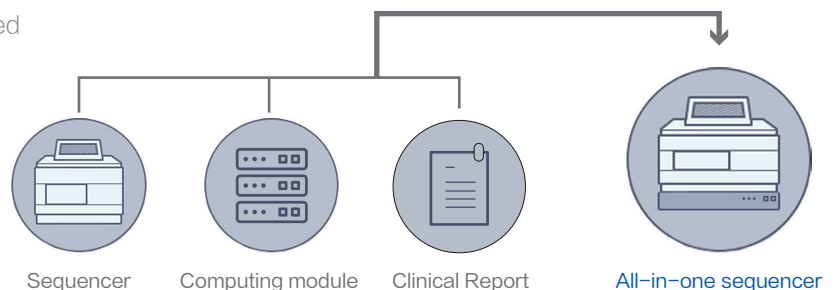
Case 3: Portable genetic sequencer equipped with bioinformatics

Background:

An entry level genetic sequencer developed on DNBSEQ E* platform for SE100 and 5M reads sequencing. Instant clinical report output powered by the embedded computing module to analyze bioinformatics in real time.

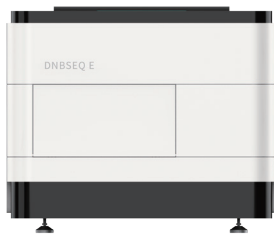
Product highlights:

- Rapid genetic sequencing
- Disposable reagent cartridge with build in waster reservoir
- Build in bioinformatics module
- User and Maintenance friendly





DNBelab D series
Modular Digital Biolab



DNBSEQ E* series
Portable Genetic Sequencer



MGI Tech Co., Ltd.

Main Bldg. Beishan Industrial Zone
Yantian, Shenzhen
518083



www.mgi-tech.com



MGI-service@mgi-tech.com

4000-966-988

Version: July 2022 | MGPA0502302

Information in this brochure is updated to [20/7/2022] and only for your reference. In no event shall the brochure be regarded as warranty or commitment made by MGI Tech Co., Ltd. All rights and obligations shall subject to final executed agreement.

*Unless otherwise informed, StandardMPS and CoolMPS sequencing reagents, and sequencers for use with such reagents are not available in Germany, USA, Spain, UK, Hong Kong, Sweden, Belgium, Italy, Finland, Czech Republic, Switzerland, Portugal, Austria and Romania.