

「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 solution for various applications.



<1m²
Space
required



15kg
Gross
weight



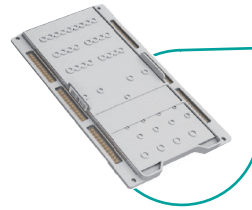
Operate
in one
click



<10 min
Hands-on
time

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



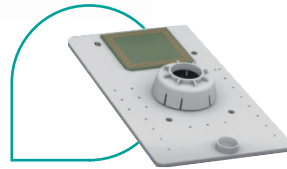
© About Core Technology



DNBSEQ™
core technology

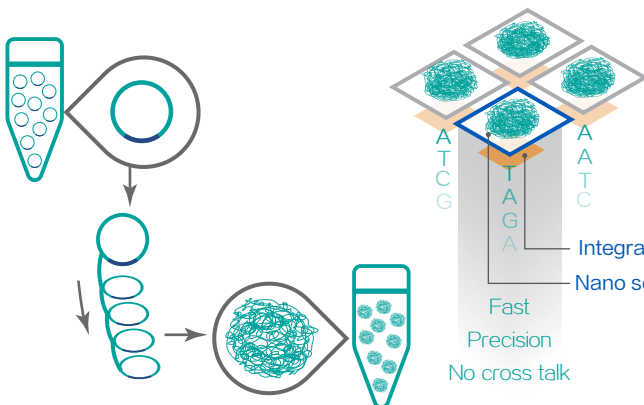


Integrated flow cell
Extreme innovation



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.



Integrated signal capturing module
Nano scale patterned array

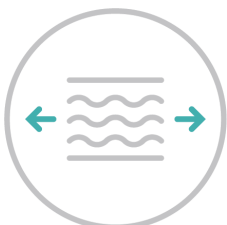
Fast
Precision
No cross talk



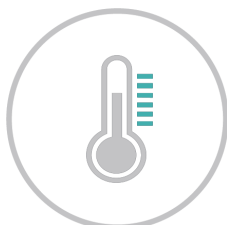
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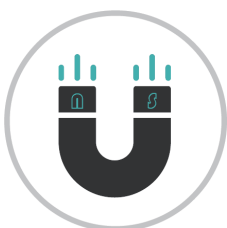
Multi-function biolab



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



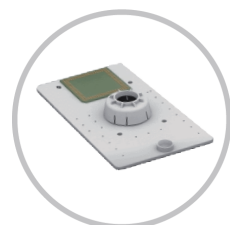
Suitable for various application

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



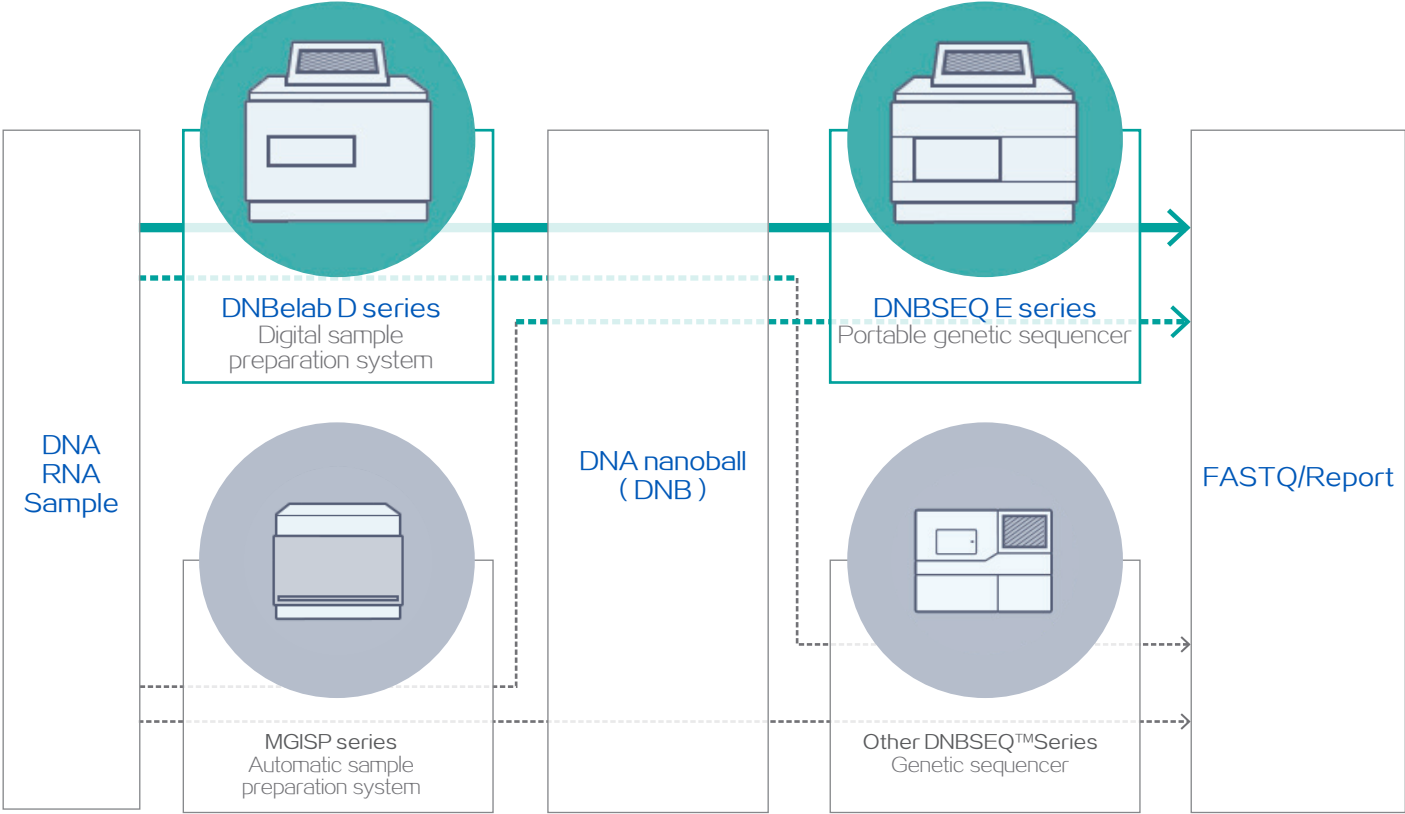
Embedded
computing module

© 「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 solutions for a complete sequencing workflow」

MGI offers a variety of automated total solutions to cover the entire sequencing workflow from automated sample preparation, high-throughput sequencing to bioinformatic analysis. The total solution 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

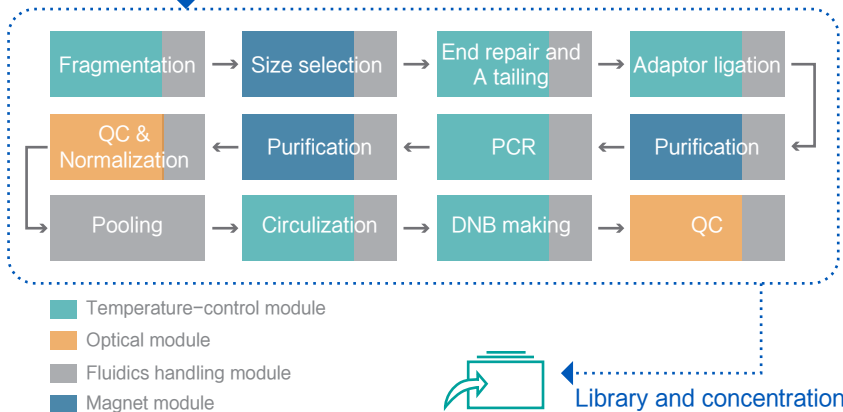
Express detection

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.

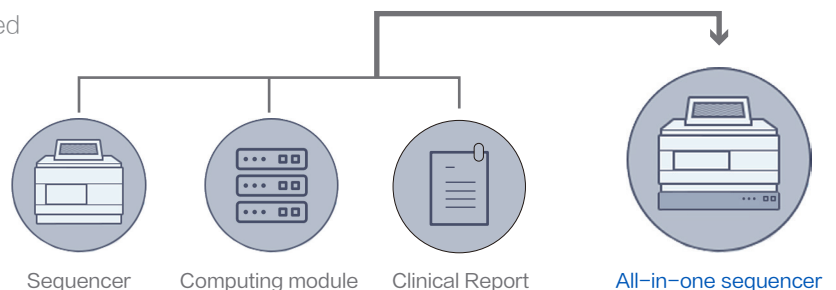
Product highlights:

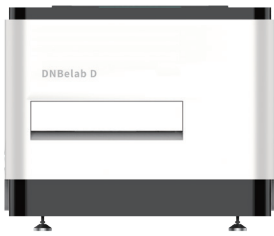
Rapid genetic sequencing

Disposable reagent cartridge with build in waster reservoir

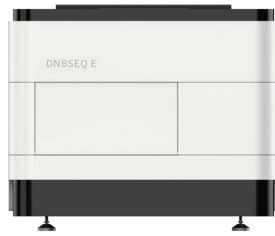
Build in bioinformatics module

User and Maintenance friendly





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Modular Digital Biolab



DNBSEQ E series
Portable Genetic Sequencer



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*All Sequencers and Sequencing Reagents are not available in Germany, the US and Spain.