

Focus on high-throughput sequencing library preparation

MGIFLP-L: Empowering you to be a library- prep expert

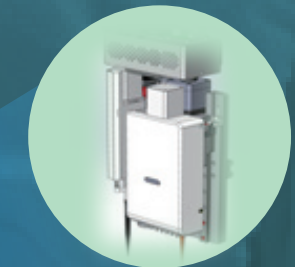
- Integration of all functional modules enables end-to-end unattended automation
- Manual setup in under 30 minutes with preset application programs
- Minimal training with user-friendly control software

Automated quantification and pooling



Functional Modules

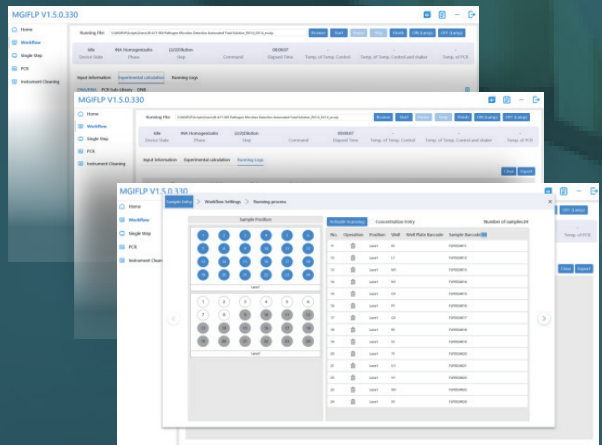
- Sample Rack & Barcode Scanner
- Temp.Control & Shaker Module
- PCR Module
- QC Module
- Temp.Control
- Magnetic Module
- Fixed 8 channel & independent 1 channel pipettor
- Gripper
- HEPA & UV






Efficient and flexible liquid transfer

User-friendly software

Touch screen operation, with visualized process. Easy to operate, realizing "quick-mode".



MGIFLP Series Products

	Automated Sequencing Library Preparation System		Modular Sequencing Workstation
	 MGIFLP-L Standalone version	 MGIFLP-L Interconnected version	 MGIFLP-L50
Function(s)	One-stop library preparation	One-stop library preparation, support sequencer integration	One-stop library prep and sequencing workstation
Sample preparation module	√	√	√
Sequencer integration system (Track + Cabinet 2)	×	√	√
Sequencing module	×	×	√
BIT module	×	×	optional
FLP ZLIMS control software	×	√	√
FLP library-prep control software	√	√	√
FLP WDesigner	√	√	√

Ordering Information

Version	Intended Market	Product Name	Item NO.
MGIFLP-L Standalone version	CE RUO	MGIFLP-LRS Automated Sequencing Library Preparation System	900-000871-00
MGIFLP-L Standalone version	CE IVD	MGIFLP-L Automated Sequencing Library Preparation System	900-000873-00
MGIFLP-L Interconnected version	CE RUO	MGIFLP-LRS Automated Sequencing Library Preparation System	900-000633-00
MGIFLP-L Interconnected version	CE IVD	MGIFLP-L Automated Sequencing Library Preparation System	900-000636-00
Quantification kit	RUO	1×dsDNA HS Assay Kit	090-002260-00
	RUO	ssDNA Assay Kit	090-002261-00

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MGIFLP-L

Automated Sequencing Library Preparation System

- MGIFLP-L Standalone version
- MGIFLP-L Interconnected version



Provide abundant "one-stop" library preparation plans

Samples in, DNB out, and the results are dependable

MGIFLP-L

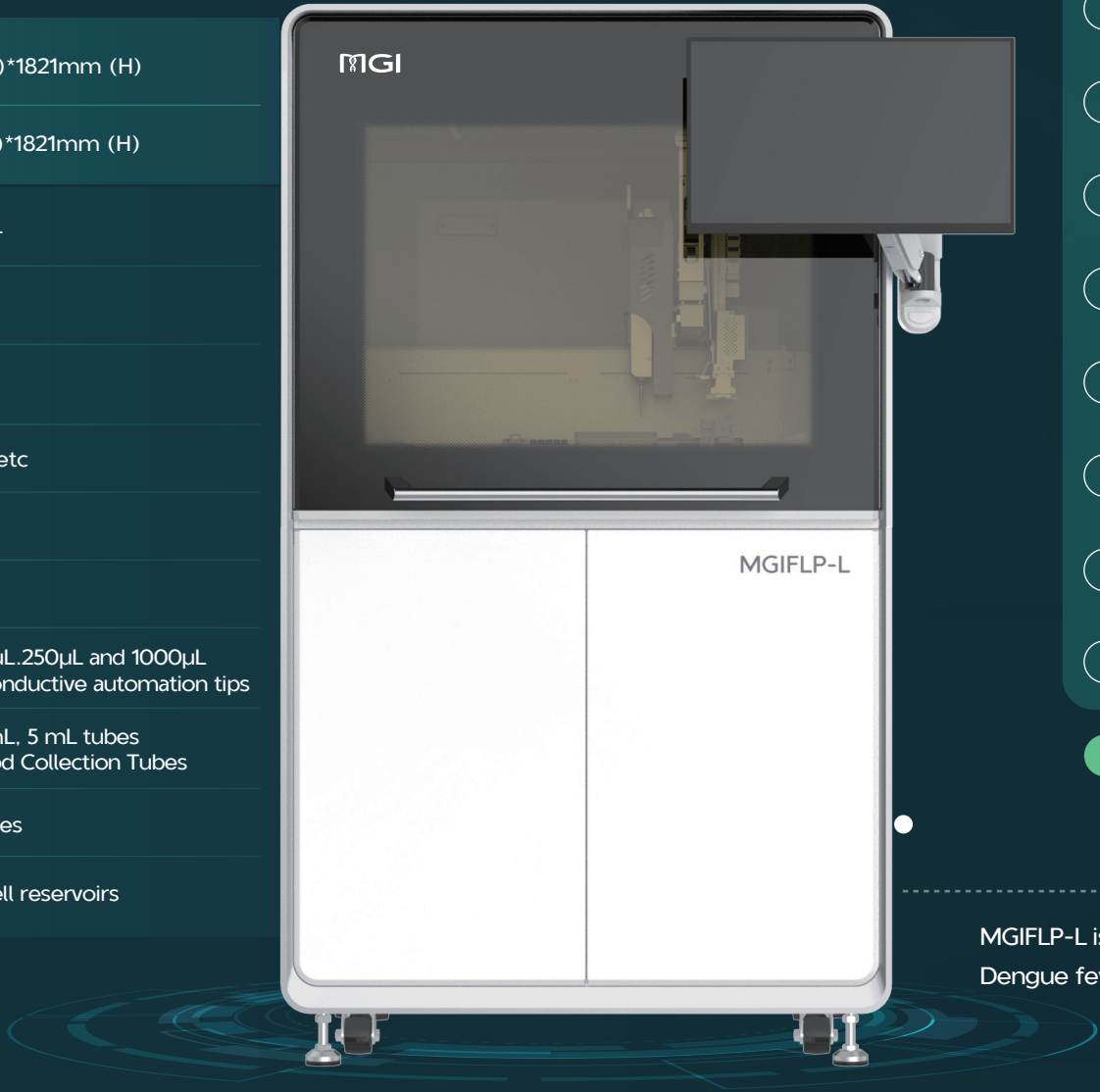
Automated Sequencing Library Preparation System

Sample preparation for high-throughput sequencing is a complicated, time-consuming, and error-prone process. It either requires manual operation or multiple instruments for partial automation. The MGIFLP-L Automated Sequencing Library Preparation System fully automates the entire process including sample extraction, library preparation, pooling, make DNB, and quality control. Customers can choose from a Standalone Version or an Interconnected Version that can integrate existing sequencers.

With a user-friendly interface and preset application programs, MGIFLP-L supports one-click start, walk-away automation that enables the “sample in, DNB out” seamless end-to-end process.

Product Parameter

Dimensions	Standalone version	1044 mm (L)*851.5mm mm (W)*1821mm (H)
	Interconnected version	1843 mm (L)*851.5mm mm (W)*1821mm (H)
Pipettor	Independent 1 channel pipettor	Range of pipetting: 1 μL-1000 μL
	Fixed 8 channel pipettor	Range of pipetting: 1 μL-200 μL
Application parameter	Recommend throughput	4-32 samples per run
	Application	WGS, Hybrid capture, ATOPLex, etc
Safety	HEPA	99.995% at 0.3 μm
	UV	More than 100000 uW.s/cm²
Consumable	Tips	Suitable for MGI's 50μL, 70μL, 180μL, 250μL and 1000μL electrically conductive and non-conductive automation tips
	Tubes	Suitable for 0.6 mL, 0.5 mL, 1.5 mL, 5 mL tubes (adapter required) and 6 mL, Blood Collection Tubes
	Plates	Suitable for 96 Well SBS Microplates
	Reservoir	Suitable for MGI's 50mL single well reservoirs

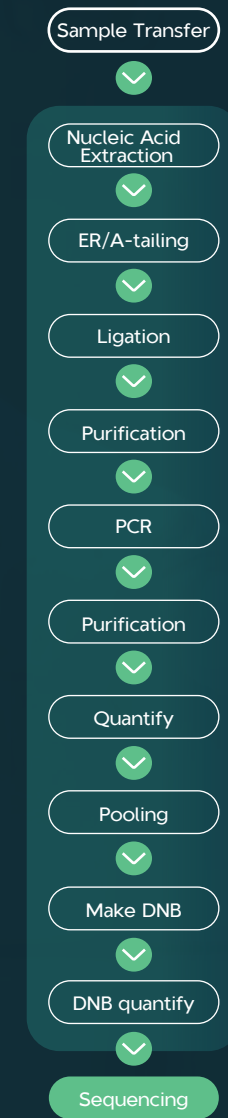


Sample in, DNB out

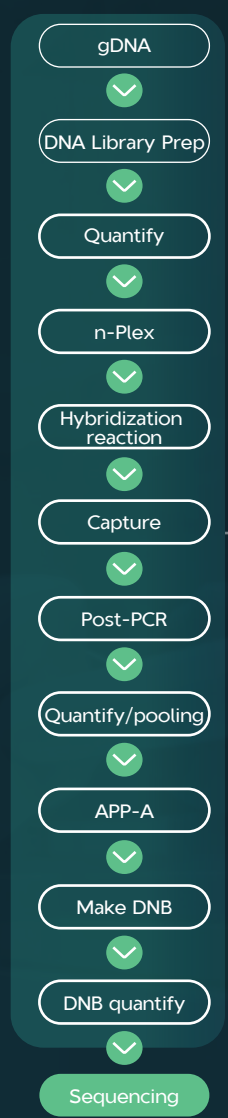
Pre-set application programs, supporting abundant library preparation scenarios

- Equipped with a “fixed 8-channel + independent single-channel” pipette to support complex pipetting operations / combined operations.
- Integrated quantitative module to record data during the experiment process and automatically calculate the input reaction.
- Pre-set selectable application programs, while providing a graphical editor to support user customization.

WGS (4~32 samples/run)

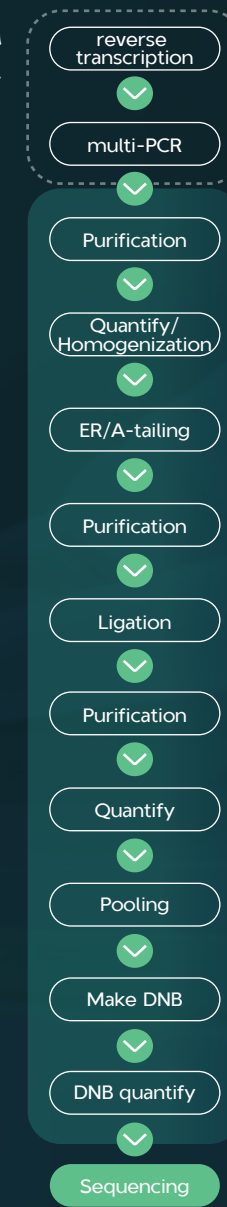


Hybrid Capture (4~32 samples/run)



手工/MGISP-100

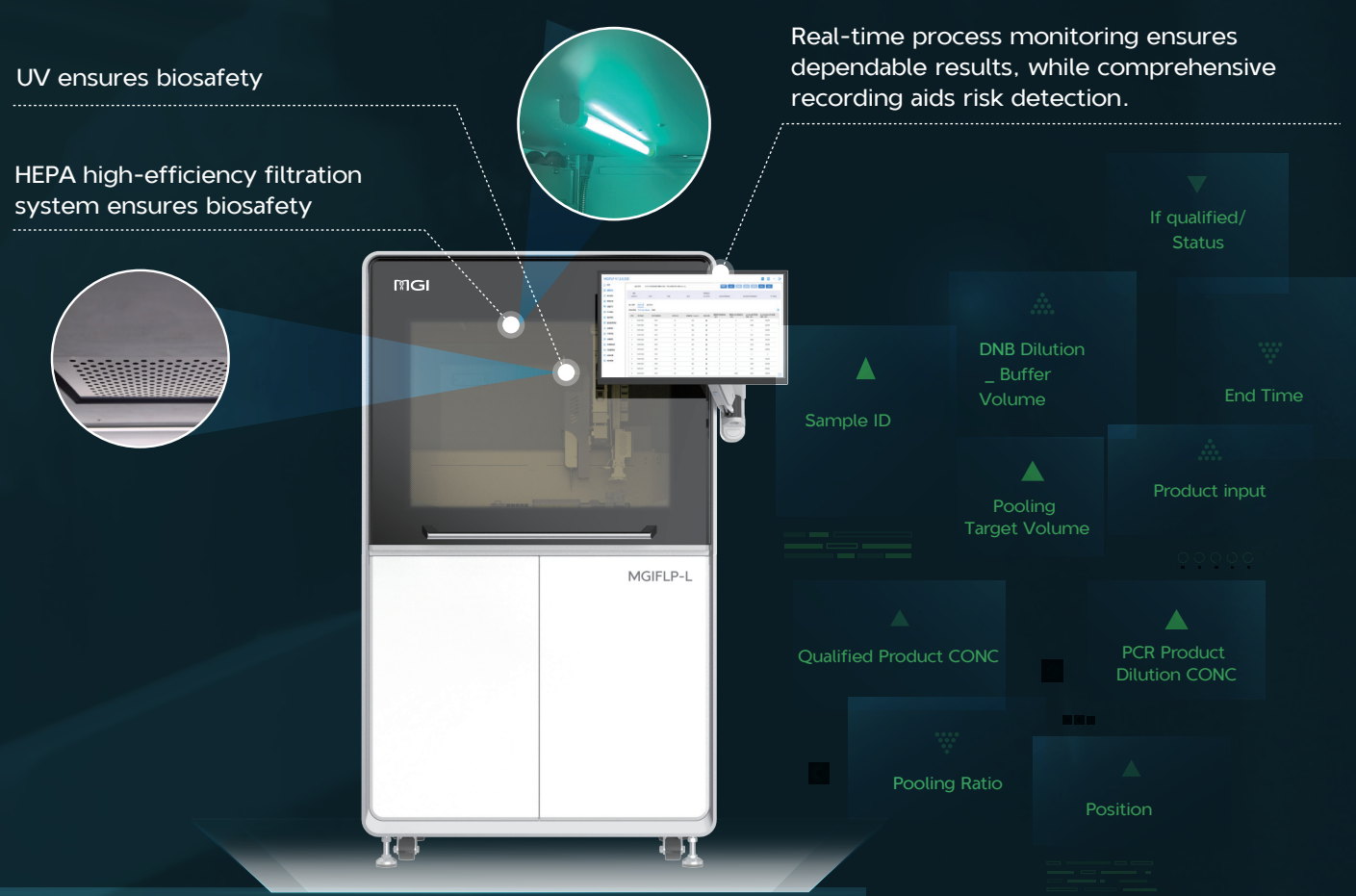
ATOPLex (4~24 samples/run)



MGIFLP-L is now compatible with multiplex PCR-based library preparation kits for Monkeypox, Dengue fever, COVID-19, and VMI (Identification of vector species and microorganisms).

Guarantee safety and reliability

Offer flexible”one-stop” library preparation plans



MGIFLP series products	Product feature	Application	Recommended No. of samples /RUN*
Scheme 1 MGIFLP-L Standalone version DNBSEQ-G99	Use in combination Create more possibilities	mNGS Onco panel ATOPLex panel (respiratory pathogens)	4~8 sample 4~32 samples 4~32 samples
Scheme 2 MGIFLP-L Interconnected version DNBSEQ-G50	Back the on-site upgrade of DNBSEQ-G50 (RUO) at the user end.	mNGS Onco panel	4~32 samples 4~32 samples
Scheme 3 MGIFLP-L50	One-click to start the sequencing experiment: samples in, results out.	ATOPLex panel (respiratory pathogens)	4~32 samples