

LeXBot Core

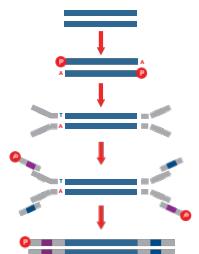
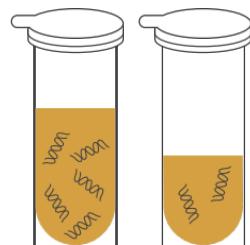
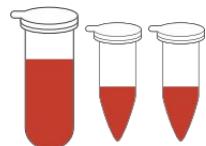
Fully-automated NGS Workstation

▶ Configuration



- 1 HEPA filter
- 2 UV lamp
- 3 3D mobile robot
- 4 Liquid handling module
- 5 Plate gripper
- 6 Vertical sliding door
- 7 Power on/off button
- 8 Status light bar
- 9 Emergency device
- 10 Integrated terminal

▶ Application

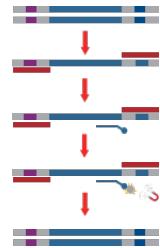
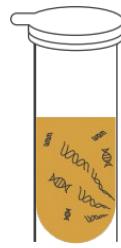
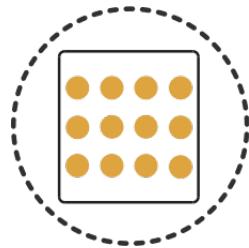
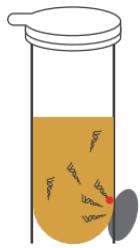


sample dispensing

nucleic acid extraction

DNA normalization

library preparation



nucleic acid purification

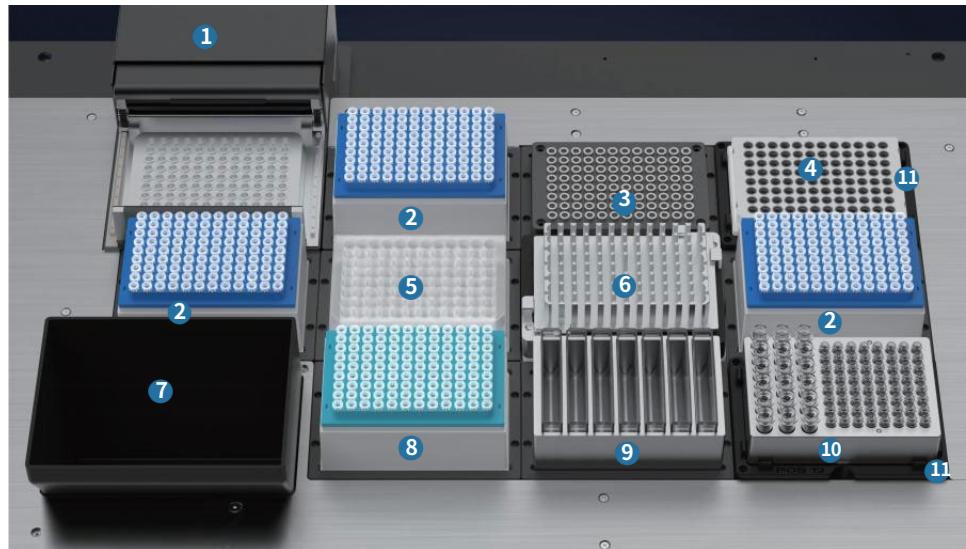
quantitative loading

sample mixing

hybridization capture

► Dynamic Operating Deck

- 1 thermal cycler
- 2 200- μ L pipette tips
- 3 magnetic stand
- 4 PCR plate carrier
- 5 waste liquid reservoir
- 6 heating and oscillating module
- 7 waste tip reservoir
- 8 50- μ L pipette tips
- 9 reagent reservoir rack
- 10 composite plate carrier
- 11 temperature control module



► Functional Components

thermal cycler



heating and oscillating module



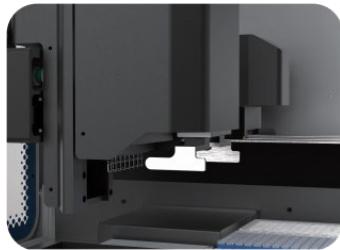
temperature control module



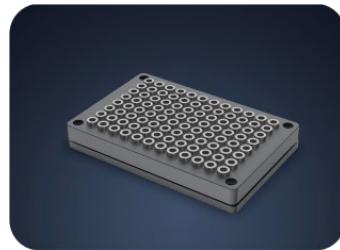
reagent reservoir rack



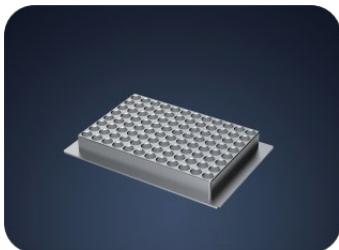
liquid handling module



magnetic stand



PCR plate carrier



composite plate carrier



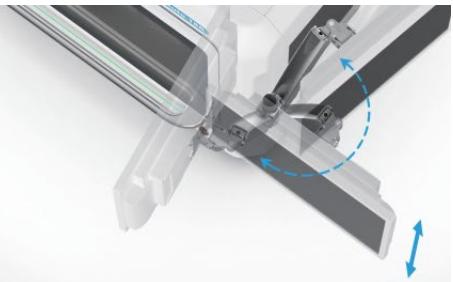
deep well plate carrier



► Feature

Compact and Portable

- Occupies less than 1 m³ of desktop space, effortlessly fits in limited spaces.
- Integrated design of terminal all-in-one and mainframe, saving installation and operational space.

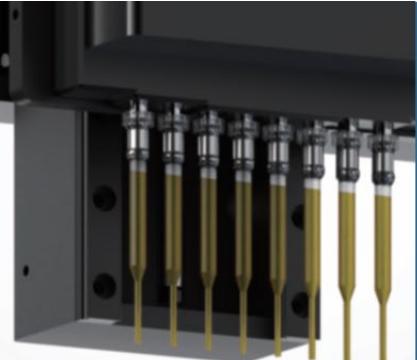


Integrated Terminal and Mainframe



Flexible Integration

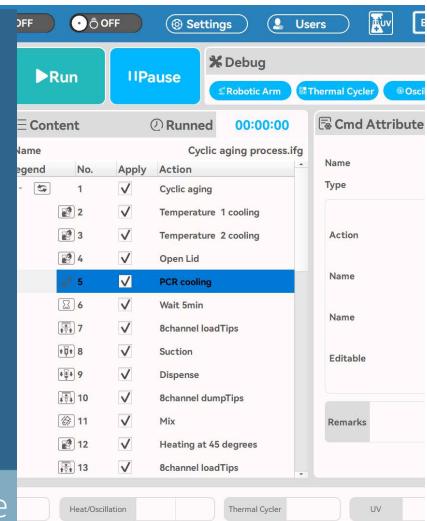
- Seamless integration of temperature control module, heating and oscillating module, and thermal cycler on the dynamic deck, supporting the flexible configuration of high-throughput workstation to true walk-away automation.
- Multi-functional integrated modules create a professional-level NGS automated workstation with minimal user errors.
- Flexible combination of 8-channel pipetting tips for precision pipetting, meeting diverse liquid-handling requirements, and improving pipetting efficiency.



8-Channel Pipetting Tip

User-friendly Simplicity

- 3D Mobile Robot with 8-channel pipetting tips and plate gripper, equipped with preset multiple transfer tracks, effortlessly handling liquid transfers and plate movements.
- High-definition large LCD screen, flexible touch control with quick response, one-touch start/pause/resume processes to sustain workflow.
- Graphical process editing, guided operation, drag-and-drop script elements, zero-threshold visual programming for a more user-friendly human-machine interaction.
- Preset for routine applications such as NGS library preparation and hybridization capture, ready to use upon purchase. Meanwhile also supporting personalized customization and independent script development.

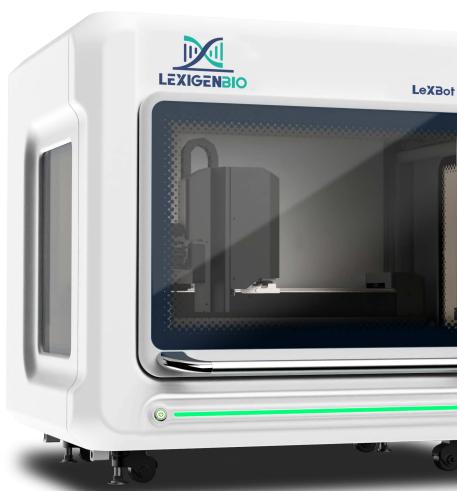


Visual Editing Interface of Software



Secure and Reliable

- Standard equipped with HEPA and UV lamp, ensuring continuous cleanliness of the operating environment.
- Based on a liquid-free air displacement pipetting principle, effectively removing aerosol contamination.
- Bright, highly colored status light bar indicates the host's operating status in real time, thus avoiding hardware failures and software errors that can cause long downtime.
- Multi-level permission management ensures data security by assigning different operation permission levels to various users.
- Emergency pause button is available for one-touch emergency stop, ensuring human-machine safety.



HEPA Filter

Specification

| | | | | |
|---------------------------------------|---------------------------|---|--------------------------------|--------------------------------|
| Host | Size | 970 mm (width) x 790 mm (depth) x 890 mm (height) | Weight | 150 KG |
| Parameters | Maximum output power | 1700 VA | Protection class | IPX0 |
| Power requirements | Voltage | AC 100 - 240 V | Frequency | 50/60 Hz |
| Operating environment | Temperature range | 10°C ~ 30°C | Relative humidity | 20% ~ 80% , non-condensing |
| | Barometric pressure range | 86 kPa ~ 106 kPa | | |
| Robot arm | Repeated positioning | ±0.1 mm | | |
| Pipetting channel | Channel type | Single/8-channel | Pipetting range | 2 ~ 200 µL |
| | Pipetting precision | 2 µL: ≤5%; 200 µL: ≤1% | Pipetting accuracy | 2 µL: ≤±10%; 200 µL: ≤±1.5% |
| Temperature control module | Temperature range | 4 ~ 75°C | Temperature uniformity | 1.0°C |
| | Temperature accuracy | ±1.0°C | Temperature fluctuation | ±0.5°C |
| Thermal cycler | Temperature range | 4 ~ 99°C | Heated lid temperature | 30 ~ 110°C |
| | Temperature accuracy | ±0.5°C | Temperature uniformity | 1.0°C |
| | Temperature fluctuation | ±0.2°C | | |
| Heating and oscillating module | Temperature range | Room temperature +5°C ~ 99°C | Temperature uniformity | 1.5°C |
| | Temperature accuracy | ±2.0°C | Temperature fluctuation | ±0.5°C |
| | Speed range | 200 rpm~2,000 rpm | | |

Order Information

| Catalog | Product | Scale |
|---------------|---|-------|
| LX_LeXBotCore | LeXBot Core Fully-automated NGS Workstation | RUO |

Statement

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LexigenBio Inc.
support@lexigenbio.com
www.lexigenbio.com
521 Cottonwood Dr Suite 121, Milpitas, CA 95035