MagCore® Automated Nucleic Acid Extractor

Full traceability and mobile monitoring on your smartphone

MagCore® Plus II

MagCore® Plus II is the newest robotic bench-top workstation for a fast and high-yield nucleic acid purification from virtually all molecular diagnostic, biological, clinical and forensic sample types. With small footprint, light weight, user friendly interface, and a broad range of entirely built-in programs with free upgrades, 1-16 samples can be isolated simultaneously at your fingertip. The instrument simplifies your daily routine providing full traceability of kits and samples, through real-time mobile monitoring and a complete report that can be downloaded on a computer at the end of each run.

Magnetic Beads

Worldwide Patented Magnetic Beads

Cellulose-coated magnetic beads, coupled with our patented binding and separation technology, guarantee high quality extracts.

DNA RNA

Ideal for both DNA/RNA extraction

Built-in protocols are created for extracting nucleic acids from a wide range of samples, including whole blood, plasma (circulating free nucleic acid), tissue, bacteria, virus, plant and forensic.

16 Sample

Throughput up to 16 samples per run

From cartridge piercing to final eluate, all steps are performed by the instrument, that allows running 1 to 16 samples at one time, for a time-saving and flexible performance.

LIMS

Full traceability of the samples and kits

A report in .csv format is generated at the end of each run and contains all relevant data: user's name, sample and kit barcode, protocol number, sample and elution volume, start and end time. The file, opened on a computer, can be subsequently processed by a LIMS.

Monitoring

Real-Time Mobile Monitoring

During the run, the instrument HMI can be accessed via Wi-Fi from your smartphone/tablet through our App, to see real-time information about the run processing status, remaining time and errors. Android and iOS compatible.

UV

UV Decontamination

The equipped UV lamp minimizes the risk of cross-contamination and ensures user and product safety.

Upgradeable via USB

Built-in Programs *(Upgradeable via USB ports, Plug&Play)*

MagCore® Plus II features built-in protocols for all the extraction kits we offer and is equipped with a USB port for free protocol and software upgrades.

Barcode Scanner

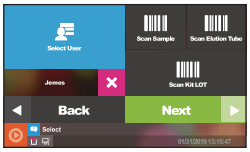
Barcode Scanner

For sample and kit tracking and monitoring and an easier organization of the test results.

Easy To Use

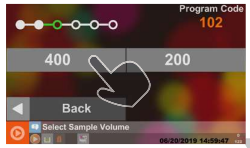
Load Samples And Install Accessories

Select User and Scan Barcodes:

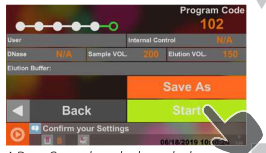


Select the code of the cartridge.

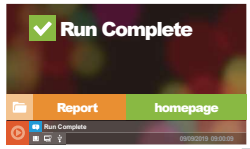
Select Sample Volume And Eluate Volume



Press Start



A Beep Sound can be heard when the program completes.

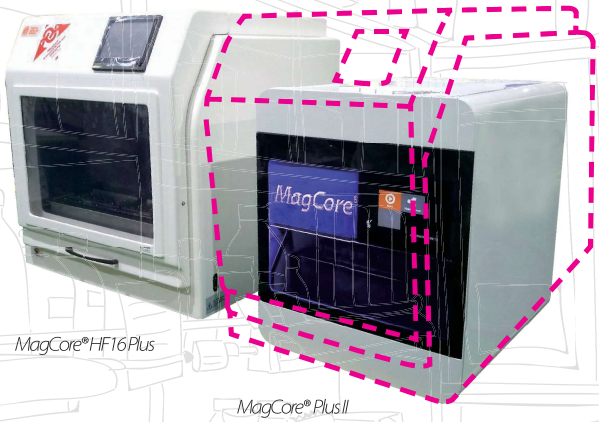


Open the run report on your computer

MagCore®

i-MolDX Support by i-MolDX System

Same throughput, smaller size



MagCore® HF16 Plus

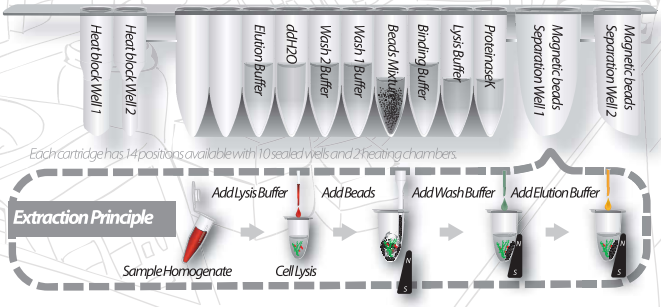
MagCore® Plus II

Barcode Scanner

Laboratory Information Management System (LIMS)

Unidirectional LIMS device, Ethernet cable

Cartridge Design and Extraction Principle



Mobile Monitoring with Android and iOS App

Specification

Model	Plus II
System Method	Cellulose coated magnetic beads
System Components	1. Pipetting Unit: X and Y-axis movement for sample transfer and dispense. 2. PLC module, HMI and Driver main board embedded in 3. UV Light: power 8w, life duration 11,000hrs 4. Heating Block: RT-90°C 5. Display Screen: 7-inch color touch panel 6. Accessories: T-racks, cartridge racks , barcode scanner, waste box
Power Supply	Voltage: AC 100V~240V; Frequency: 50/60Hz
Dimension	W523 x D602 x H605 (mm) / W21 x D23.7 x H23.8 (inches)
Net Weight	70kg / 154.35lbs

Operating Parameters

Processing Capacity	1-16 samples per batch
Processing Time	30-90 minutes (depends on sample type and method)
Sample Volume	200µl/400µl/1,200µl/ 4ml * depending on the program.
Elution Volume	30µl/40µl/60µl/100µl/150µl/200µl * depending on the program.
Yield	Average 6µg Genomic DNA from 200µl human whole blood
Purity	DNA : O.D.$A_{260/280}$ ratio 1.8 ± 0.1 RNA : O.D.$A_{260/280}$ ratio 2.0 ± 0.2
Pipetting Accuracy	30-60µl 20%; 60-100µl 10%; 100-1000 µl 4%

Operating Environment

Temperatures allowed during transportation, storage, and packaging	15°C-35°C
Temperatures allowed during operation	18°C -30°C
Pollution Degree	Level 2

FDA (10055336) registered and CE-IVD certified (Instruments & Reagents)
Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR

ISO 13485:2016 Quality Management Systems CERTIFIED
MD 757696

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