

Technical Specifications

Throughput	200 photometric tests per hour and 400 tests per hour with ISE* (*optional ISE with Na ⁺ , K ⁺ , Cl ⁻ , Li ⁺)
System Type	Discrete, automated, random access, patient prioritized clinical chemistry analyzer
Onboard Parameters	Upto 50 + 4 ISE*
Sample Type	Serum, plasma, urine other
Programmable Parameters	Default Parameters + 10 Open Channels
Analytical Methods	1-Point, 2-Point, Rate-A, Rate-B, Direct Potentiometry
Calibration	Linear, Non-Linear, multipoint
Photometer	Static photometer
Absorbance Range	0 - 3.0 Absorbance
Light Source	Halogen Lamp
Optics	8 filters (340 - 700 nm) 340, 405, 505, 546, 578, 600, 660, 700 nm
Detector	8 Silicon photo diodes
Sample Unit	39 positions for routine samples including blank, controls and standards All the positions can be used for STAT
Reagent Unit	50 cooled reagent positions
Quality Control	LJ Plot and multiple rules
Reaction Tray	45 hard glass cuvettes
Reaction Liquid Mixing	Stirrer with variable speed mixer
Reading Volume	180 µl
Onboard Laundry	6 stage cleaning, 2 stage drying with cuvette validation step
Sample Pipetting	2 - 70 µl (adjustable in 0.1 µl)
Reagent Pipetting	10 - 300 µl (adjustable in 1 µl)
System	PC, IBM compatible, OS-Windows XP, CPU P4, RAM 512 MB, HD - 40 GB, Printer - Laser, TFT monitor, System interface - USB port bi-directional
Power Supply	AC 110 V +/- 10% 60 ± 1 Hz or AC 220 V ± 10%, 50 ± Hz (Factory Sol)/600VA
Dimensions	810 mm(W) x 800mm(D) x 600mm(H)

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EM 200[®]

Automated Random Access Clinical Chemistry Analyzer



EM 200[®]

AUTOMATED RANDOM ACCESS
CLINICAL CHEMISTRY ANALYZER



With the introduction of EM 200, the biochemistry automation is now within the reach of every clinical laboratory. Its rugged hardware & array of features make it an ideal choice for start-up, mid-sized and advanced labs. The system is convenient and user - friendly.

EM 200 is designed for perfection. Every part of the analyzer is tested for its quality and reliability by our efficient team.



Designed keeping you in mind

Key Features:

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Fully automated, Random Access Clinical Chemistry Analyzer.
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Compact bench top analyzer having small footprint.
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Throughput of 200 photometric tests per hour and 400 tests per hour with ISE (Na⁺, K⁺, Cl⁻, Li⁺).
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Easy to use & complete walk-away system.
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Reaction volume of 180 µl, economical cost per test.
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Default programmed parameters.
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Continuous sample loading for faster processing.
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Barcode enabled positive identification of samples and reagents.
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Probe is equipped with liquid level sensor.
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Automatic probe washing avoids carry over.
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STAT Sampling aids in reporting emergency samples.
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Auto-dilution and auto-rerun facility allows to test high value samples.
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Highly reliable hardware with minimal maintenance cost.
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Wide test menu.
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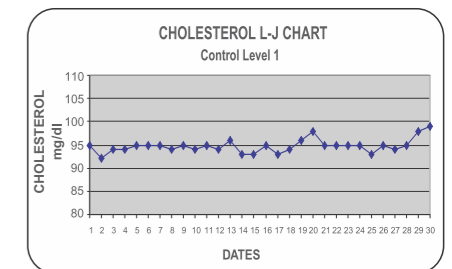


Unparalleled QUALITY

EM 200 comes with multi level QC with "multi rules" providing high end accuracy and precision. Wide measurement range and high analytical sensitivity of assays provide unparalleled performance in clinical chemistry.

Complete Quality Control Management

EM 200 has an extensive Quality Control Management system which gives confidence in reporting by providing LJ Chart with multi rules. Different levels of controls can be evaluated on EM 200. The results are flagged after evaluating multi rules for acceptance.



Onboard Laundry & Onboard Cooling

Laundry involves 6 stage cleaning, 2 stage drying & validation step, which provides cost effective solution without compromising on quality. Biohazard waste is removed from the cuvette and disposed off separately.

Onboard cooling enhances the reagent onboard stability and calibration stability.



Savings on Cuvette Cost

Permanent hard glass cuvettes used with EM 200 are non disposable thereby saving costs and without compromising on accuracy of results.



1

Unparalleled

QUALITY

2

Unmatched

FLEXIBILITY

3

Unbelievable

CONVENIENCE

Unmatched FLEXIBILITY

EM 200 is bench top analyzer designed for high performance. It is known for its robustness and gives you greater control over quality, reliability and speed. EM 200 clinical chemistry analyzer enhances the productivity and increases the efficiency of operations.



Reliable Optical System

Proven static photometry offers technological advantages of interference filters. It provides accuracy and precision with

- Narrow bandwidth and higher resolution.
- Monochromatic and biochromatic filters eliminate interferences from lipemic and icteric samples.
- Enhanced accuracy and reproducibility of results.



Unique Automated Features

EM 200 is backed with unique automated features such as:

- Automated precise pipetting of reagents and samples as low as 2 μL and as high as 300 μL .
- Robotic probe equipped with liquid level sensor.
- Vertical obstruction detection sensor protects the probe and increases the longevity.
- Immersion mixing with user defined & three variable speed.
- Dedicated cleaning station to ensure high precision.



Cost Effective Operation

EM 200 provides unmatched economy:

- Reagent volume of 180 μL - 200 μL for most chemistries.
- Permanent hard glass cuvettes saves the recurring expenses on replacement of cuvettes.
- Minimal maintenance cost.



Unbelievable CONVENIENCE

EM 200 offers ease-of-use with its combination of sophisticated hardware and advanced software.

EM 200 allows seamless operations with the following features:

Dedicated system pack reagents on EM 200 allow hassle free operations.

Continuous sample loading for uninterrupted processing of samples.

Barcode enabled positive identification of samples and reagents.

STAT sample processing helps an operator to process emergency samples.

Default programmed parameters ensures no manual intervention.

User friendly intuitive software.

Wide Test Menu

All Routine Clinical Chemistry profiles like LFT, KFT, lipids, diabetic, etc.

Specialized chemistries like HbA1c, ADA, Apo A1, Apo (B), Lp(a)

Immunoturbidimetric Assays like ASO, RF, CRP etc.



Reliable, Flexible, Convenient
and Affordable Automation

EM 200[®]