

"Think Biochemistry ! Think Vector..."



VECTOR



UNICORN 230

Random Access Biochemistry Analyzer

200 Tests/Hour, Double Reagent

- Fully Automatic, Discrete, Random access Biochemistry analyzer.
- On board automated 7 step washing laundry
- Integrated fully closed optical system.
- 44 - Semi Permanent Special cuvettes and on board washing system.
- On board - Refrigeration of reagent & sample compartment
- Available with ready to use system packs.

Multifunctional precision sampling probe

- Polished internally and externally, effective probe washing internally and externally.
- Liquid detection sensor, Accurate detection of reagents and sample volume.
- Collision Protection and automatic adjustment of probe.



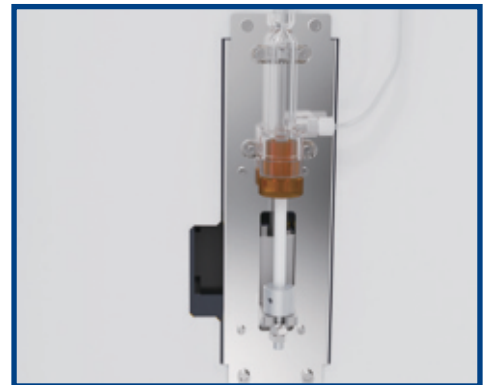
Excellent mixer design

- Teflon coated mixer, prevents water dropping (reducing carry-over)
- Homogenous mixing effect with standard mixing procedure steps.



High precision ceramic syringe

- Durable ceramic piston
- Accurate dispensing with steps of 0.1 μ l
- Effective pipetting at every dispensation.



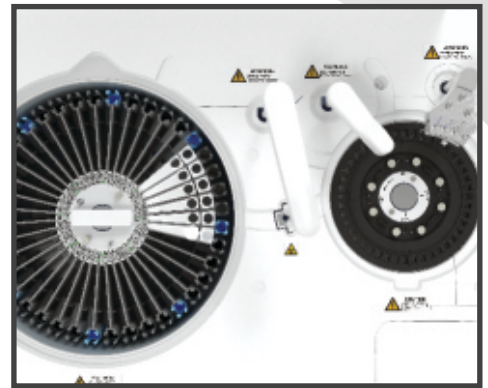
Reagent & sample tray

- 40 reagent positions (40 for R1 & 40 for R2)
- 40 sample positions; micro cup & test tube can be placed
- 24 hours cooling system using peltier pad inside
- STAT Position possible at any sample position



Reaction tray

- 44 reaction pyrex cuvettes, Automated on board 7 steps washing laundry
- Reaction volume as low as 150 μ l
- Stable & accurate temperature ($37\pm 0.1^{\circ}\text{C}$) for reaction
- Separate power switch for refrigeration
- Window for easy changing of Lamp



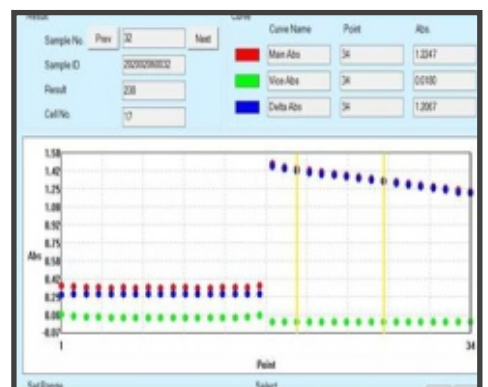
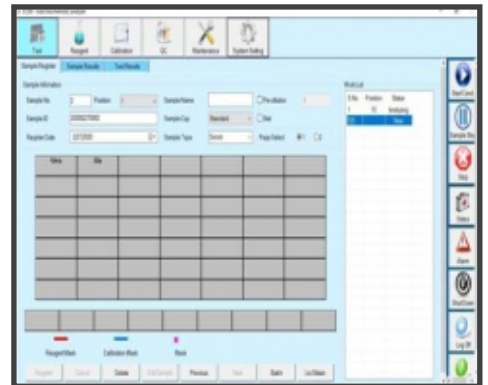
Unicorn 230 System Packs

- Barcoded ready to use liquid stable
- High on board stability
- Total solution of reagents, calibrators and controls



Advanced operating system

- User Friendly icon based operation menu
STAT facility
- Administration Test Profile Panel, Easy Analysis of Data, Option of calculated test programming
Customization of printing formats
- Sample, Reagent and Reaction Disc Status, Sample Blank and Reagent Blank Auto Calculation, QC and Calibration Status, Reagent Volume Monitoring, Substrate Depletion Detection, Abnormal Status Warning, Automated features for Dilution (Pre and Post) and Rerun Option
- Windows XP, Windows 7, Windows 8, Windows 10
- TCP/IP network
- 6 Optional Formats, Support Customization



UNICORN 230

Random Access Biochemistry Analyzer

Technical specification

General information :

Machine type : Random access

Test speed : Constant 200 test/hour (Mono reagent or double reagent)

Test principle : Colorimetric method, turbidimetry

Test methods : 1 point end, 2 point end, Fixed-Time, Kinetics

Calibrator type : Linear & nonlinear

Sample unit

Sample tray : 40 sample position

Sample tube : Micro cup & test tube & blood collection (Φ 12-13)mm * (25-100)mm

Sample volume : 2-30µl, step by 0.1µl

Sample probe : Liquid surface detection, timely tracking for liquid volume. Collision Protection

Sample barcode : Sample barcode reader (optional)

Reagent unit

Reagent tray : 40 reagent positions

(40 for R1 & 40 for R2), 24 hour cooling system with peltier pad inside

Reagent volume : 20-300µl, step by 1µl

Reaction unit

Reaction tray : 44 reaction cuvettes, new amorphous optical plastics reaction cups, perfect transmittance.

Reagent volume : 150µl-330µl

Mixing system

Mixer : Paddle-type mixing, effective and reducing carryover

Optical system

Light source : Halogen lamp

Wavelength : 340nm; 405nm; 505nm; 546nm; 578nm; 630nm; 700nm (4 more options)

Absorbance range : 0-4.0 Abs

Resolution : 0.0001 Abs

Operating system

Operation system : Windows 7, Windows 8, Windows 10

Report printing : 6 formats optional, support custom formats

Interface : pattern, TCP/IP network interface

Working conditions

Power supply : AC 110/220V ± 10%, 50/60 Hz, 650W

Water consumption : 8L/hour (maximum)

Dimension : 780mm * 565mm * 1120mm (L*W*H)

Weight : 70k g

Power Supply

110/220V± 10%, 50/60 Hz, 1000VA,

Earthing voltage < 5V online ups (230V)

with isolated transformer 2KVA



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