

# VChem next

## Programmable Biochemistry Analyzer

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### Technical Specifications

Human Machine Interface : TOUCH PANEL/KEY BOARD/MOUSE  
 Linear measurement range : 0.000 to 3.000 Absorbance Units (A)  
 Photometric Accuracy :  $\pm 2\%$  or 0.007 whichever is higher, from 0 to 2.0A,  
 $\pm 3\%$  from 2.0A to 3.0A  
 Drift :  $< 0.003$  A/hr.  
 Optical measurement : Silicon Diode

#### Filters

Type of filter : Interference  
 Wave Length : 340, 405, 450, 505, 546, 578, 630 + 2 Optional  
 Half Bandwidth :  $\pm 2$ nm  
 Filter Selection : By Stepper motor

#### Flow cell

Type : Stainless steel body & Quartz window  
 Flow cell volume : 32  $\mu$ l  
 Sipping Volume : 300 to 1000  $\mu$ l  
 Sipping Mode : Automatic by specially designed Peristaltic Pump  
 Cuvette Volume : 500  $\mu$ l

#### Temperature of Cuvette / flow cell Block

Method : By Peltier effect  
 Temperature : 25° C, 30° C and 37° C  
 Light Source : 6V / 10W Tungsten Halogen lamp  
 Warm up Time : 90 Sec.  
 Display : 7" TFT Display 300 x 930  
 Printer : Built in 55 mm, stationary head graphical thermal printer  
 Memory : DDR<sub>2</sub> & DRAM 1 GB, Flash 256 MB  
 CPU : ARN Cortex A8720 MHz  
 Built in Incubator : 2 Place for coagulation reagent  
 15 Place for coagulation Cuvette  
 9 Place for test tubes

**Storage Capacity** : 2000 Open tests with 30 QC results/test  
 (Normal and Abnormal controls) and  
 200000 Patient results with patient ID and Graph

**Analysis Mode** : 1 point, 2 point (Sample blank)  
 Fixed time  
 Kinetic  
 Coagulation

Concentration calculation : By factor or by standard  
 Blanking : Water, Reagent  
 Port : 4 USB, LAN RJ45

#### Power

Wattage : 100 Watts  
 Voltage : 110-240 Volts  $\pm 10\%$ , 50-60 Hz  
 Operating Position : On horizontal, flat, rigid and vibration free surface

#### Operating Conditions

Temperature : from + 18° C to 35° C  
 Relative Humidity : up to 85 %

#### Storage Condition

Temperature : from - 10° C to + 60° C  
 Relative Humidity : up to 85 %  
 Enclosure : ABS Fire retardant  
 Size (cm) : 30X38X13.5 (LxBxH)  
 Weight : 7.0 Kgs. (Approx)

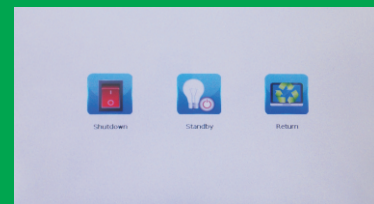


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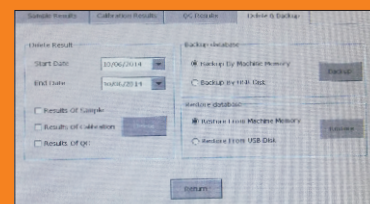
### Stand by Menu

- Power saving mode/Stand by /Lamp saving mode
- Programmable stand by time prolonged the life of lamp & TFT display



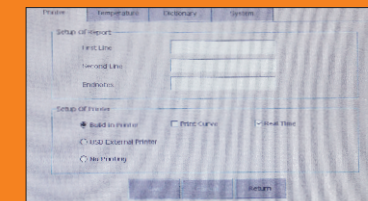
### Main Menu

- Advance technology instrument with Windows based operation (cortex A8 720 MHz processor)
- Easy to operate – Touch Panel, External key board & mouse
- LAN connectivity, 4 USB ports



### PT / APTT

- PT, APTT test can be performed
- PT-APTT Cuvvetes are provided along with the holder
- Results are 95% correlated with coagulation analyzer



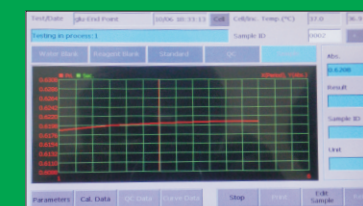
### Software / Printer / Backup

- Easy to upgrade software
- System back up can be stored on USB disc or vice versa
- External power supply can increase the life of lamp & electronics
- A comprehensive instrument with built in reporting software
- Built in printer as well as external USB Printer (Windows based)

AD	AD	AD	AD	AD	AD	AD	AD
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
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1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
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1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000

### AD Value Calibration

- More than 3000 hr lamp life
- Easy to replace lamp
- High grade SS Quartz windows flow cell
- Temperature calibration & monitoring through software
- Easy pump calibration
- Auto AD value calibration through software



### Online Curve

- Duel cuvette system, Flow cell & micro cuvetts
- Easy to operate & Easy programing
- Self explanatory manuals
- Offers options for selection
- Online curve for all types of chemistry

