

Technical Specifications

PHOTOMETRIC MODULE

- Seven Narrowband Interference Filters
- Filter Wavelengths: 340, 405, 505, 546, 578, 630 and 670nm (1 open position for optional filter)
- IAD process ensures long filter life
- Wavelength Accuracy : ± 2 nm
- Silicon Photo Diode detector
- Absorbance Range : 0.0–3.0 A
- Resolution : 0.0001 Absorbance Units
- Photometric Drift : < 5 mAbs/30min
- CV : < 1%

TEMPERATURE OF FLOW CELL/CUVETTE

- 25°C, 30°C, 37°C
- Temperature Stability : $\pm 0.2^\circ\text{C}$

DISPLAY

- 5.7 Inch LCD display screen
- High Contrast Display

KEYBOARD

- Tactile touch QWERTY keypad
- Visual indication on keypad during aspiration

PRINTER

- Internal 80mm thermal printer with full graphics printing

MEASURING MODULE

- Dual mode (Flow cell & Cuvette)
- High quality Quartz flow cell for precise measurements
- 30 μl Flowcell volume
- Peltier-controlled reaction temperature
- External cuvettes (10mm path length)

REACTION VOLUME

- Minimum aspiration volume - 300 μl
- Maximum aspiration volume - 5ml

DIMENSIONS

- Length : 422mm
- Width : 324mm
- Height : 176mm
- Weight : 6.5 kg

ISO 9001-2015 certified

ANALYSIS METHOD

- Endpoint, Fixed time and Kinetic
- Sample blanking and Reagent Blanking
- Direct Absorbance measurement mode

TEST PROFILES

- User defined 10 Test Profiles
- 10 tests can be added in each profile

TEST CHANNELS

- 48 dedicated assays
- Direct access keys for dedicated assays
- Open channel capability
- 200 programmable channels

DATA MANAGEMENT

- Storage of up to 10,000 test results
- Stores 30 days QC for each Assay
- Reagent Blank storage

REPORTS

- Search by date, sample ID or Test Name
- Calibration Reports, QC results

UNITS

- 15 pre-defined measurement units

QC AND CALIBRATION

- Daily and monthly QC with data archiving.

INTERFACE

- RS 232 Port • USB Port
- PC Connectivity (optional)

POWER

- Input Voltage Range : 88 - 264 VAC
- Frequency Range : 47 - 63 Hz
- Power consumption : 75 W max



ChemXpress

Express Chemistry Solutions...



Semi Automated Clinical Chemistry Analyser

• Expert Instrument...

• Xpress Results...



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ChemXpress

Express Chemistry Solutions...

ISO 9001-2015 certified

ChemXpress is a product of our Curiosity. A result of our relentless effort to make an indigenous product that is stable and scalable.

FLEXIBLE

- Programmed to analyse endpoint, fixed time and kinetic assays
- Storage for 200 user programmable test methods and 10000 test results
- Create up to 10 customised test profiles

ECONOMICAL

- Low reagent consumption
- High quality surface coating ensures long Filter life
- Extended lamp life

ROBUST

- Low maintenance
- Consistent and reliable results
- Indian design and manufacturing

OPTIMISED OPTICAL DESIGN

High sensitivity measurements for kinetic and turbidimetric assays (RF, ASO, CRP etc)



LIGHT SOURCE

Halogen Quartz tungsten lamp
(6V, 10Watt)
Lamp life saving mode
(programmable sleep interval)
Unique Lamp life enhancing
circuit



ASPIRATION

High precision peristaltic pump
Non corrosive tubing ensures long life and
accurate aspiration
Aspiration air gap and auto empty function
after each sample run
Minimal chances of carry over

ONE TOUCH ACCESS
TO DEDICATED ASSAYS

48 direct access assays



PRINTABLE
REAL TIME GRAPH

Real time graph is displayed on screen and can
be printed



EASY MAINTENANCE

Self-diagnosis and system health reporting are an integral part of ChemXpress
Easily set photometer gain and perform pump calibration.

SOFTWARE FEATURES

The chemXpress is designed simple and intuitive to enhance the user experience
for your daily quality testing.



INTUITIVE USER INTERFACE

Six informative screens control operations
Easy navigation through submenus
Requires minimal training



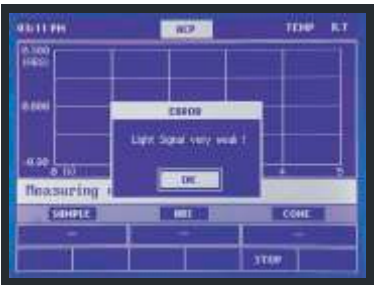
QUALITY CONTROL

Mean, SD, % CV and R calculated for each assay
Levey-Jennings control chart
3 levels per assay
Westgard Rules



CALIBRATION

Factor, one-point, two-point and multi-point
Non linear multi point calibration
Up to 3 replicates per point
Up to 10 calibration points



ERROR DETECTION

Early detection and reporting of errors on screen
Saves time and avoids faulty test runs which saves
reagents

ANALYSIS MODES

Absorbance	Kinetic with factor and linearity check
Immunoturbidimetry	End Point with factor, standard or multiple standards with or without reagent/sample blank
Bichromatic mode	Fixed time with standard, factor or multiple standards, with or without reagent blank