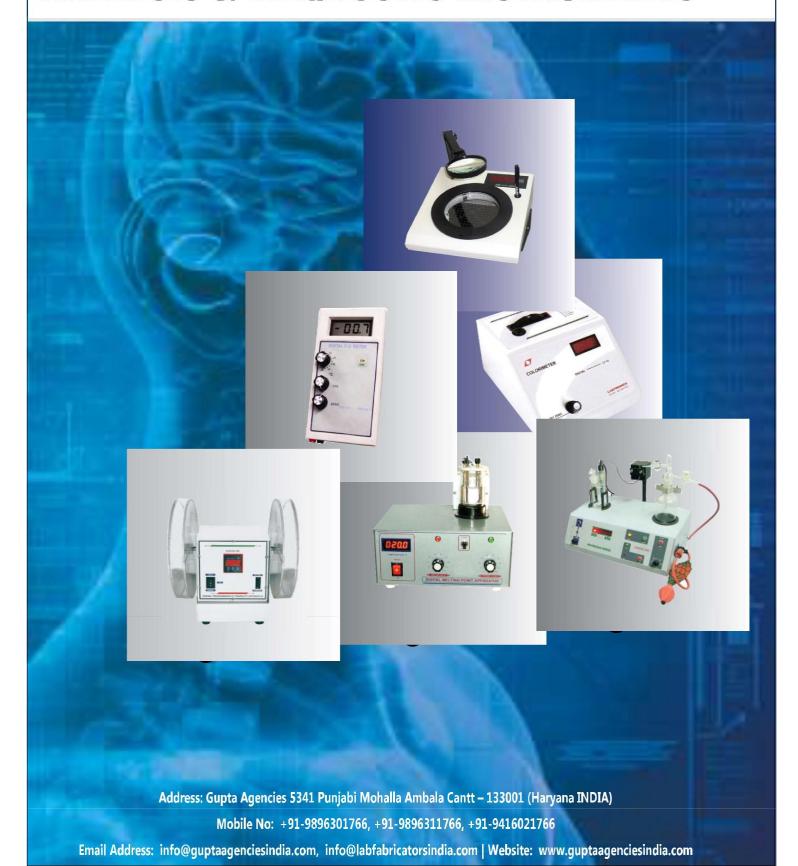


A Complete House of Scientific & Laboratory Equipments

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**UV-VIS SPECTROPHOTOMETER** 



#### **TECHNICAL SPECIFICATIONS**

FUNCTION Basic, Wavelength Scan, Multi Wavelength, Kinetics,

Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 1.0 nm

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

PHOTOMETRIC ACCURACY ± 0.3 %T or

± 0.002 A/h @1A

PHOTOMETRIC RANGE %T : 0 - 200%

Abs : -0.3 to 3A Conc. : 0 - 9999 C

STRAY LIGHT < 0.03 %T @ 220 nm & 360 nm

STABILITY  $\pm 0.001 \text{ A/h} \ @ 500 \text{ nm}$ DISPLAY 7 Inches TFT Color Screen
BASELINE FLATNESS  $\pm 0.001 \text{A/h} \ (200 - 1000 \text{ nm})$ 

SAMPLE COMPARTMENT 2 cell holder 10 mm path- length. (50 mm & 100 mm

path-length optional at extra cost)

LIGHT SOURCE Halogen & Deuterium Lamps (Pre-Aligned)

OUTPUT PORTS USB DRIVE, USB HOST & RS232

POWER 230 V  $\pm$  10% AC. 50 Hz

DIMENSIONS (L x B x H) Instrument : 810 x 660 x 390 mm (Approx.)

WEIGHT Instrument : 27.0 Kg. (Approx.)

#### SALIENT FEATURES

- ✓ Double Beam Optics
- √ 7 Inches TFT Color Screen
- Auto Wavelength Setting
- On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelentgth, Kinetic, Quantitative, DNA/Protein modes
- ✓ Pre-aligned design makes it convenient to change Lamps
- Large Sample Compartment can accommodate 5-100 mm path-length cuvettes with optional holders.

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual Software CD

USB Data Cable for PC Connectivity













UV-VIS SPECTROPHOTOMETER 8 CELL HOLDER



#### **TECHNICAL SPECIFICATIONS**

FUNCTION Basic, Wavelength Scan, Multi Wavelength, Kinetics,

Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 1.0 nm

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

PHOTOMETRIC ACCURACY  $\pm$  0.3 %T or

± 0.002 A/h @1A

PHOTOMETRIC RANGE %T : 0 - 200%

Abs : -0.3 to 3A Conc. : 0 - 9999 C

STRAY LIGHT ≤ 0.03 %T @ 220 nm & 360 nm

STABILITY  $\pm$  0.001 A/h @ 500 nm DISPLAY 7 Inches TFT Color Screen BASELINE FLATNESS  $\pm$  0.001A/h (200 - 1000 nm)

SAMPLE COMPARTMENT 8 cell with automatic cell changer - 10 mm path-length.

LIGHT SOURCE Halogen & Deuterium Lamps (Pre-Aligned)

OUTPUT PORTS USB DRIVE, USB HOST & RS232

POWER 230 V  $\pm$  10% AC, 50 Hz

DIMENSIONS (L x B x H) Instrument : 810 x 660 x 390 mm (Approx.)

WEIGHT Instrument : 27 Kg. (Approx.)

#### SALIENT FEATURES

- ✓ Double Beam Optics
- ✓ 7 Inches TFT Color Screen
- ✓ Auto Wavelength Setting
- ✓ On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend
  Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelentgth, Kinetic, Quantitative, DNA/Protein modes
- ✓ Pre-aligned design makes it convenient to change Lamps
- ✓ 8-Position Auto Cell Changer of 10mm path-length provided.

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual

Software CD

USB Data Cable for PC Connectivity







UV-VIS SPECTROPHOTOMETER VARIABLE BANDWIDTH



#### **TECHNICAL SPECIFICATIONS**

FUNCTION Basic, Wavelength Scan, Multi Wavelength, Kinetics,

Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 0.5/1.0/1.8/2.0/4.0/5.0nm (Variable)

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

PHOTOMETRIC ACCURACY  $\pm$  0.3 %T or  $\pm$  0.002 A/h @1A

PHOTOMETRIC RANGE %T : 0 - 400%

Abs : -0.4 to 4Abs
Conc. : 0 - 9999 C

STRAY LIGHT < 0.05 %T @ 220 nm & 360 nm

STABILITY  $\pm$  0.001 A/h @ 500 nm

DISPLAY 5 Inches 320 x 240 Dots Graphical LCD

BASELINE FLATNESS  $\pm$  0.001A/h (200 - 1000 nm)

SAMPLE COMPARTMENT 2 cell holder 10 mm path-length. (50 mm path-length

optional at extra cost)

LIGHT SOURCE Halogen & Deuterium Lamps (Pre-Aligned)

PRINTER INTERFACE Parallel port for Dot Matrix

PC CONNECTIVITY USB Port for PC Connectivity

POWER 230 V  $\pm$  10% AC, 50 Hz

DIMENSIONS (L x B x H) Instrument : 760 x 550 x 240 mm (Approx.)

WEIGHT Instrument : 20.0 Kg. (Approx.)

#### **SALIENT FEATURES**

- ✓ Double Beam Optics
- ✓ 320 x 240 Dots Graphical LCD
- ✓ Auto Wavelength Setting at 0.1nm interval
- On-screen Standard and Kinetic Curve Display
- Tungster/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Proteinmodes
- ✓ Pre-aligned design makes it convenient to change Lamps
- Large Sample Compartment, can accommodate 5-100 mm path-length cuvettes with optional holders.
- ✓ Optional Sipper Pump

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual Software CD

USB Data Cable for PC Connectivity











UV-VIS SPECTROPHOTOMETER VARIABLE BANDWIDTH WITH 8 CELL CHANGER



#### **TECHNICAL SPECIFICATIONS**

FUNCTION Basic, Wavelength Scan, Multi Wavelength,

Kinetics, Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 0.5/1.0/2.0/4.0/5.0nm (Variable)

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

PHOTOMETRIC ACCURACY  $\pm$  0.3 %T or  $\pm$  0.002 A/h @1A

PHOTOMETRIC RANGE %T : 0 - 400%

Abs : -0.3 to 4Abs
Conc. : 0 - 9999 C

≤ 0.03 % @ 220 nm & 360 nm

\_\_\_\_\_

STABILITY  $\pm$  0.001 A/h @ 500 nm

DISPLAY 5 Inches 320 x 240 Dots Graphical LCD

BASELINE FLATNESS  $\pm 0.001 \text{A/h} (200 - 1000 \text{ nm})$ 

MPLE COMPARTMENT 8 cell with automatic cell changer -10 mm path-

length.

LIGHT SOURCE Halogen & Deuterium Lamps (Pre-Aligned)

PRINTER INTERFACE Parallel port for Dot Matrix PC CONNECTIVITY USB Port for PC Connectivity POWER 230 V  $\pm$  10% AC, 50 Hz

DIMENSIONS (L x B x H) Instrument : 760 x 550 x 240 mm (Approx.)

WEIGHT Instrument : 20.0 Kg. (Approx.)

#### SALIENT FEATURES

- ✓ Double Beam Optics
- √ 320 x 240 Dots Graphical LCD
- ✓ Auto Wavelength Setting at 0.1nm interval
- ✓ On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Proteinmodes
- Pre-aligned design makes it convenient to change Lamps
- ✓ 8-Position Auto Cell Changer of 10 mm Path- length provided.

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual

Software CD

USB Data Cable for PC Connectivity

Mains Lead Dust Cover







STRAY LIGHT



UV-VIS SPECTROPHOTOMETER
TOUCH SCREEN



#### **TECHNICAL SPECIFICATIONS**

FUNCTION Basic, Wavelength Scan, Multi Wavelength,

Kinetics, Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 1 nm

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

Abs

PHOTOMETRIC ACCURACY  $\pm$  0.3 %T or  $\pm$  0.002 A/h @1A PHOTOMETRIC RANGE %T : 0 - 200%

Conc. : 0 - 9999 C

: -0.3 to 3A

STRAY LIGHT  $\,\leq 0.03~\%~$  @ 220 nm & 360 nm

STABILITY  $\pm$  0.001 A/h @ 500 nm

DISPLAY 10.1 Inches Colored Touch Screen BASELINE FLATNESS  $\pm$  0.001A/h (200 - 1000 nm) SAMPLE COMPARTMENT 2 cell -10 mm path-length.

LIGHT SOURCE Halogen & Deuterium Lamps (Pre-Aligned)

PRINTER INTERFACE Parallel port for Dot Matrix PC CONNECTIVITY USB Port for PC Connectivity POWER 230 V  $\pm$  10% AC, 50 Hz

DIMENSIONS (L x B x H) Instrument : 810 x 660 x 390 mm (Approx.)

WEIGHT Instrument: 27 Kg. (Approx.)

#### SALIENT FEATURES

- ✓ Double Beam Optics
- ✓ 10.1 Inches Colored Touch Screen
- ✓ Auto Wavelength Setting at 0.1nm interval
- ✓ On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Proteinmodes
- ✓ Pre-aligned design makes it convenient to change Lamps

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual Software CD

USB Data Cable for PC Connectivity









UV-VIS SPECTROPHOTOMETER XENON LAMP



#### TECHNICAL SPECIFICATIONS

FUNCTION Basic, Wavelength Scan, Multi Wavelength,

Kinetics, Quantitative, DNA/Protein

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 1 nm

OPTICAL SYSTEM Double Beam, Grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  0.1 nm WAVELENGTH REPEATABILITY  $\pm$  0.1 nm.

SCANNING SPEED HI, MED & LOW, MAX. 3600 nm/min

PHOTOMETRIC ACCURACY  $\pm$  0.3 %T or  $\pm$  0.002 A/h @1A

PHOTOMETRIC RANGE %T : 0 - 200%

Abs : -0.3 to 3A Conc. : 0 - 9999 C

STRAY LIGHT  $\leq 0.03 \%$  @ 220 nm & 360 nm

STABILITY  $\pm$  0.001 A/h @ 500 nm

DISPLAY 7 Inches TFT Colored Screen

BASELINE FLATNESS  $\pm$  0.001A/h (200 - 1000 nm)

SAMPLE COMPARTMENT 2 cell holder -10 mm path-length.

LIGHT SOURCE Xenon Lamp

OUTPUT PORTS USB DRIVE, USB HOST & RS232

POWER 230 V  $\pm$  10% AC, 50 Hz

DIMENSIONS (L x B x H) Instrument : 810 x 660 x 390 mm (Approx.)

WEIGHT Instrument : 27 Kg. (Approx.)

#### **SALIENT FEATURES**

- ✓ Double Beam Optics
- ✓ 7 Inches TFT Colored Screen
- Auto Wavelength Setting at 0.1nm interval
- ✓ On-screen Standard and Kinetic Curve Display
- ✓ Xenon Lamp for Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Proteinmodes

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual Software CD

USB Data Cable for PC Connectivity









## 291 SINGLE BEAM

UV-VIS SPECTROPHOTOMETER
WITH PROFESSIONAL SCANNING SOFTWARE



#### **TECHNICAL SPECIFICATIONS**

WAVELENGTH RANGE 190 - 1100 nm

SPECTRAL BANDWIDTH 2 nm

OPTICAL SYSTEM Single Beam, grating 1200 lines/mm

PHOTOMETRIC ACCURACY ± 0.5 %T or 0.003 A@1A

PHOTOMETRIC RANGE - 0.3 to 3A, 0 - 200 %T, 0 - 9999 Conc.

STRAY LIGHT  $\leq 0.3 \text{ %T}$ 

PHOTOMETRIC MODE

STABILITY  $\pm$  0.002 A/h @500 nm

DISPLAY 128 x 64 Dots Large Graphical LCD
KEYBOARD Soft Touch Membrane Kevs

NETBOALD SOIL TOUGH WICHIDIANG REYS

DETECTOR Silicon Photodiode

SAMPLE COMPARTMENT Standard 4-Position 10 mm path-length cuvette holder.

(Accommodates upto 100 mm path-length cuvette with

% Transmission, Absorbance and Concentration

optional holder)

LIGHT SOURCE Tungsten and Deuterium Lamps

OUTPUT USB for PC Connectivity and Parallel Port for Dot Matrix

Printer

PC SOFTWARE Basic PC Software provided for quantitative / kinetic

analysis with Professional PC Software for additional So

wavelength scan and DNA/Protein Test.

POWER 230 V±10% AC, 50 Hz

DIMENSIONS Instrument : 700 x 550 x 340 mm (L x B x H) (Approx.)

#### **SALIENT FEATURES**

- ✓ Covers 190 to 1100 nm
- ✓ 4 Position Cuvette Holder
- ✓ Automatic Wavelength Selection
- √ 128x64 Graphical LCD
- ✓ Printer Interface
- ✓ USB Computer Interface
- ✓ With Professional Scanning Software

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual Software Manual

Software CD

USB Data Cable for PC Connectivity











## 29 SINGLE BEAM

**UV-VIS SPECTROPHOTOMETER** 



#### **TECHNICAL SPECIFICATIONS**

WAVELENGTH RANGE 200 - 1020 nm

SPECTRAL BANDWIDTH 2 nm

OPTICAL SYSTEM Single Beam, grating 1200 lines/mm

WAVELENGTH ACCURACY  $\pm$  1 nm WAVELENGTH REPEATABILITY 2.0 nm WAVELENGTH RESOLUTION 2.0 nm

PHOTOMETRIC ACCURACY ± 0.5 %T or 0.003 A@1A

PHOTOMETRIC RANGE - 0.3 to 2A, 0 - 200 %T, 0 - 9999 Conc.

STRAY LIGHT < 0.3 %T

STABILITY  $\pm$  0.002 A/h @500 nm

DISPLAY LCD

KEYBOARD Soft Touch Membrane Keys

PHOTOMETRIC MODE % Transmission, Absorbance and Concentration

DETECTOR Silicon Photodiode

SAMPLE COMPARTMENT Standard 4-Position 10 mm path-length cuvette holder.

(Accommodates up to 100 mm path-length cuvette with

optional holder)

LIGHT SOURCE Tungsten and Deuterium Lamps
OUTPUT RS 232/USB for PC Connectivity

POWER 230 V±10% AC, 50 Hz

#### SALIENT FEATURES

- ✓ Covers 190 to 1020 nm
- ✓ 4 Position Cuvette Holder
- ✓ LCD Data Display
- ✓ Printer Interface
- ✓ RS-232C Computer Interface
- ✓ Automatic Lamp Selection between UV & Visible Range

#### STANDARD ACCESSORIES

Quartz Cuvettes - A Set of 2 Glass Cuvettes - A Set of 4

Instruction Manual
Software Manual
Software CD

RS232 Cable for PC Connectivity







## 39 **VISIBLE**

#### **SPECTROPHOTOMETER** MICROPROCESSOR BASED

#### TECHNICAL SPECIFICATIONS

OPTICAL SYSTEM Czerny-turner CT grating monochromator, 1200 lines / mm 320-1020nm WAVELENGTH RANGE

SPECTRAL BANDWIDTH 4nm WAVELENGTH ACCURACY 2 nm WAVELENGTH REPEATABILITY ≤2 nm

MEASUREMENT RANGE -0.000 to 1.999A, 0-199.9%

PHOTOMETRIC ACCURACY ±1%T PHOTOMETRIC REPEATABILITY 0.5%T MEASURING OPTICAL PATH 50 mm

STRAY LIGHT ± 1.0%T (340 nm)

STABILITY  $\pm$  0.004 A/h(500 nm preheat 1 hour)

DISPLAY MODES 4 modes, LCD BASIC MEASUREMENT T. A. C. F 6V10W LIGHT SOURCE

OPERATING VOLTAGE 220V/110VAC.50-60Hz



#### SALIENT FEATURES

- ✓ Large Sample Room to Place 50mm Cuvette
- ✓ Digital Display of %T, Abs and Conc.
- Auto Light Door and Zero Setting
- Compact Design
- Covers 320 1020 nm

#### STANDARD ACCESSORIES

Glass Cuvettes - A Set of 2

Instruction Manual

RS232 Cable for PC Connectivity

Mains Lead **Dust Cover** 



# SINGLE BEAM

VIS SPECTROPHOTOMETER SCANNING BASED

#### **TECHNICAL SPECIFICATIONS**

WAVELENGTH RANGE SPECTRAL BANDWIDTH OPTICAL SYSTEM WAVELENGTH ACCURACY WAVELENGTH REPEATABILITY WAVELENGTH RESOLUTION PHOTOMETRIC ACCURACY PHOTOMETRIC RANGE

PHOTOMETRIC REPEATABILITY

STRAY LIGHT STABILITY DISPLAY

PHOTOMETRIC MODE

KEYBOARD

320 - 1100 nm 2 nm

Single Beam, grating 1200 lines/mm

± 0.5 nm 0.3 nm0.1 nm

± 0.3 %T or 0.003 A@1A -0.3 to 3A,0-200%T,0-9999 conc.

 $\pm 0.2\%T$ < 0.3%T

±0.002A/h@500nm

128 x 64 Dots Large Graphical LCD % Transmission, Absorbance and Concentration, Scanning etc. Soft Touch Membrane Keys



SAMPLE COMPARTMENT

LIGHT SOURCE DETECTOR OUTPUT

PC SOFTWARE

**POWER** 

Standard 4-Position 10 mm pathlength cuvette holder. (Accommodates

upto 100 mm path-length, cuvette with optional holder)

Tungsten Lamps Silicon Photodiode

USB for PC Connectivity and Parallel Port for Dot Matrex Printer Basic PC Software provided for

quantitative /kinetic analysis with Professional PC Software for additional

wavelength scan and DNA/Protein Test

230V±10% AC. 50 Hz











## 31/38/40 DIGITAL

**SPECTROPHOTOMETERS** 

#### **TECHNICAL SPECIFICATIONS**

RANGE RESOLUTION OUTPUT

DETECTOR
LIGHT SOURCE
MONOCHROMATOR
SAMPLE HOLDER

SPECTRAL BANDWIDTH WAVELENGTH RESOLUTION WAVELENGTH ACCURACY REPEATABILITY DISPLAY

OPERATING TEMP. RANGE

**POWER** 

DIMENSIONS (LxBxH)

WEIGHT

340 to 960 nm

0.1% T, Abs: 0.001, Conc.: 1

% T: 0 to 100%, Abs: 0 to 1.999, Conc.: 0 to 1999,

Silicon Photodiode

6 V, 10 W, Tungsten Halogen Lamp 600 lines/mm holographic grating 10 mm Cuvette holder for LT-31

10 mm & 50 mm Cuvette holder for LT-38

10 mm, 50 mm & 100 mm Cuvette holder for LT-40

5 nm 1 nm ± 2.5 nm ± 2 nm

31/4 Digit Bright Red LED Dual Display for Data &

Wavelength

50 to 450C 230 V±10% AC. 50 Hz

475 x 285 x 130 mm (Approx.)

8.5 Kg. (Approx.)



#### SALIENT FEATURES

- ✓ Range 340 to 960 nm
- ✓ Dual Digital Display for Wavelength & Data
- ✓ Wavelength Resolution 1 nm
- ✓ Highly Stable & Accurate
- Direct Concentration Facility
- √ 10 mm, 50 mm & 100mm path length

#### STANDARD ACCESSORIES

Cuvettes (10 mm): 2 Nos. (Model LT-31)

Cuvettes (10 mm & 50 mm): 2 Nos. (Model LT-38)

Cuvettes (10 mm, 50 mm & 100 mm): 2 Nos. (Model LT-40)

Dust Cover : 1 No. Operation Manual

Operation Manual: 1 No.

WARRANT, YEAR



#### Colorimeter

#### **TECHNICAL SPECIFICATIONS**

Measuring principle

Model

Modes

Measurement range

Minimum Reading Resolution Viewing system Light Source Illuminant

Path Length
The diffuse reflect activity of White plate
The amplification of the magnifiers
The dimension of Colorimetric untensil

Power supply & Power Watts Weight (Gross)

Weight (Gross) Overall dimensions LT-790

Visual, in terms of international colour scale units

Transmittance, reflectance

0.1-79.9 Red 0.1-79.9 Yellow 0.1-49.9 Blue 0.1-3.9 Neutral

0.1
0.1 colour scale unit
Fully adjustable
Incandescent lamp
Approximates to daylight
Up to 180 mm
> 80%

10 x 20 x 40mm, 25.4x20x40mm, 133.4 x 20 x 40mm

AC 220 V/50 Hz & 50W

13kg

620mm x 440mm x 300mm













## 4100 FT-IR

**SPECTROMETER** 



#### **TECHNICAL SPECIFICATIONS**

Spectral Range 7800 to 350 cm-1
Resolution Better than 0.85 cm-1

Wavelength Accuracy ±0.01 cm-1

Scanning speed 5- step adjustable for different applications.

Signal to noise ratio Better than 20,000 (RMS Value, at 2100 cm-1,

resolution : 4 cm-1, detector DTGS. 1 minute data

collection)

Beam Splitter Ge COATED Kbr

Infrared source Air Cooled, high efficiency, Reflex sphere module

Detector DTGS

Data system Compatible computer

Software FT-IR software contains all routines need for basic

spectrophotometer operations, including library search,

quantitation and spectrum export.

Interferometer Cube-corner Michelson Interferometer

IR Library 11R libraries included Dimensions 540 x 520 x 260 mm

Weight 24 Kgs.

POWER SUPPLY 230 V  $\pm$ 10%, 50 Hz

#### SALIENT FEATURES

- ✓ High Intensity IR source
- ✓ High Sensitive optical system
- ✓ Wide Sample Compartment
- ✓ High stability modular partition design
- ✓ Plug & Play Operation
- Provided with Various Special IR Libraries

#### STANDARD ACCESSORIES

Transmission sample holder

Thin Standard Film

Software CD

USB Cable

Tool Kit

Manual

**Dust Cover** 









## 2102 ATOMIC ABSORPTION

SPECTROPHOTOMETER DOUBLE BEAM



#### TECHNICAL SPECIFICATIONS

PARAMETER Computer controlled, High performance, optically double beam Atomic Absorption Spectrometer having following

specifications.

OPTICS Real time Double beam with Deuterium background

MONOCHROMATOR CZ design with 330 mm focal length, 1800 line/mm grating and 185-930 nm wavelength range. Automatic

emission wavelength selection and peaking.

Continuously variable slits with 0.2 to 2 nm spectral bandwidth. Automatic wavelength scanning. Selected

wide range

DETECTOR High performance multi-alkali Photo multiplier tube R928

MOTORIZED LAMP TURRET Eight lamp motorized turret with automatic lamp selection and individual lamp peaking automatically warmed up.

and individual lamp peaking automatically warmed up.

Compatible with standard & coded hollow cathode lamps

BACKGROUND CORRECTION Deuterium arc Radiation ULTRA FAST-PULSE 1024 Hz background corrector Wave length correction range 185-

425 nm,. Corrects to 2.5 total absorbance

AUTOMATIC FLAME Programmable gas controller with digital display of CONTROL UNIT flow, Full safety interlock including built in pressure

regulator on both lines, power failure protection, auto shut down of flame, burner drain, door interlock and electronic flame igniter & real time status sensing, fitted

bung and pressure relief bung

NEBULIZER Fully inert nebulizer

SPRAY CHAMBER PTFE spray chamber and adjustable impact bead

aerosol.

BURNER Titanium burners for C2 H2 -N20 & C2H2- AIR

SENSITIVITY Greater than 0.7 abs for 5 mg/L coppersolution with an

RSD of less than 0.5% Characteristics concentration of

copper 0.030 ug/ml

OUTPUT PORT USB /Wi-Fi/ BLUETOOTH CONNECTIVITY FOR PC

SOFTWARE Windows 10 based user friendly software

DIMENSION 100 x 55 x 58 cm ( L x H x W ) cm

WEIGHT 65 kg, Unpacked

ELECTRICAL REQUIREMENTS 220/240 V AC, 50/60 Hz, 800 VA

HOLLOW CATHODE LAMPS 67 Element high intensity Single Element available

#### **SALIENT FEATURES**

- ✓ Highly Stable and accurate
- ✓ True Double Beam Optics
- ✓ 8 lamp turret
- ✓ Range 185 900 nm
- √ 1800 lines grating (USA)
- ✓ Variable Bandwidth 0.1 to 2 nm
- User friendly software

#### STANDARD ACCESSORIES

Software CD

**USB** Cable

Manual

**Dust Cover** 

Cathode Lamps (Optional)

Acetylene Cylinder (Optional)

Nitrous Oxide Cylinder (Optional)

Regulators (Optional)

Moisture Filter (Optional)

Compressor (Optional)







## 2100 ATOMIC ABSORPTION

**SPECTROPHOTOMETER** SINGLE BEAM



#### **TECHNICAL SPECIFICATIONS**

**PARAMETER** Computer controlled, ,High performance, optically single

beam Atomic Absorption Spectrometer having following

specifications.

**OPTICS** Real time Single beam with Deuterium background

MONOCHROMATOR CZ design with 330 mm focal length, 1800 line/mm

grating and 185-930 nm wavelength range. Automatic emission wavelength selection and peaking.

Continuously variable slits with 0.2 to 2 nm spectral bandwidth. Automatic wavelength scanning. Selected

wide range

DETECTOR High performance multi-alkali Photo multiplier tube R928

MOTORIZED LAMP TURRET 8 lamp motorized turret with automatic lamp selection and individual lamp peaking automatically warmed up.

Compatible with standard & coded hollow cathode lamps

FLAME CONTROL UNIT Manual flame control fully safe & sturdy having

independent flow meter

**NEBULIZER** Fully inert nebulizer

SPRAY CHAMBER PTFE spray chamber and adjustable impact bead

aerosol.

Titanium burners for C2H2-N2O & C2H2- AIR BURNER

SENSITIVITY Greater than 0.7 abs for 5 mg/L copper solution with an

RSD of less than 0.5% Characteristics concentration of

copper 0.030 ug/ml

**OUTPUT PORT** RS 232 / USB

SOFTWARE Windows 10 based user friendly software

DIMENSION 100 x 55 x 58 cm (Lx Hx W) cm

WEIGHT 65 kg, Unpacked

**ELECTRICAL REQUIREMENTS** 220/240 V AC, 50/60 Hz, 800 VA

HOLLOW CATHODE LAMPS 67 Element high intensity Single Element available

#### SALIENT FEATURES

- ✓ Highly Stable and accurate
- ✓ Single Beam Optics
- 8 lamp turret
- user friendly software
- Range 185 900 nm
- 1800 lines grating

#### STANDARD ACCESSORIES

Software CD

**USB** Cable

Manual

**Dust Cover** 

Cathode Lamps (Optional) Acetylene Cylinder (Optional)

Nitrous Oxide Cylinder (Optional)

Regulators (Optional) Moisture Filter (Optional)

Compressor (Optional)











DISSOLUTION TEST APPARATUS
TOUCH SCREEN



#### **TECHNICAL SPECIFICATIONS**

#### **GENERAL**

Stations 8 basket

Display 7 Inches Colored Touch Screen

Prog. Mode Routine, Sustain and Control mode. Facility for 20

different test setups available in Routine and Sustain

mode.

Printer Provision for the attachment of dot-matrix printer with

centronics parallel port interface available.

STIRRER

Speed  $25-200 \text{ RPM}, \pm 1 \text{ RPM}$ 

Resolution 1 RPM Accuracy  $\pm$  1 RPM

TEMPERATURE

Range  $30 \text{ to } 50^{\circ} \text{ C}$ Accuracy  $\pm 1^{\circ} \text{ C}$ 

Temp. Control Microprocessor Based using PT100/Semiconductor

Sensor

SAMPLE

Reaction Vessel 1000 ml jars with stirrer pedals and baskets

Heater 1 KW

Power 230 V  $\pm$  10%, 50 Hz. AC

#### SALIENT FEATURES

- √ 7 Inches Colored Touch Screen
- Password protected data login facility.
- ✓ Complies with USP, IP specifications
- ✓ Extremely Useful for Pharmaceutical Labs
- ✓ Highly Accurate and Easy to Operate
- ✓ Programmable Stirrer Speed Control i.e. (25 200 RPM)
- ✓ USB Interface Available
- ✓ Three Programming Modes i.e. Routine, Sustain and Control
- 40 Independent Programmable Setups for Routine and Sustain Mode with Storage Facility
- √ 400 Samples Storage Facility
- Printer Attachment Facility
- ✓ Audio Visual Indicators for System Status
- ✓ Easy to Empty & Clean the Water bath with Bottom Drainage
- ✓ Continuation of Last Sample Run in case of Power Failure

#### STANDARD ACCESSORIES

Main Unit with Acrylic Tank and Rectangular Cover Plate and Water Bath Temperature Sensor (T1)

Heater Bath Circulating Pump

External Temperature Sensor (T2) for Vessel

Reaction Vessel capacity 1000 ml ((8 Nos.)

Round Acrylic Cover Plate with Hole and a large slit(8 Nos.)

S.S. Paddle, S.S Wire Mesh Basket (8 Nos.)

Glass pipettes with rubber bellows

Mains Lead

Instruction Manual

**Dust Cover** 









## 721/720 **MICROPROCESSOR**

**DISSOLUTION TEST APPARATUS** 



#### **TECHNICAL SPECIFICATIONS**

#### **GENERAL**

Stations 8 Station in Model - 721

6 Station in Model - 720

Display 20 x 4 line Alphanumeric LCD display with back list

Keyboard 19 soft touch membrane type keys

LED 6 LED's, 3 LED's for Test status like Run, Alarm, End and

2 LED's for Platform up/down status and one for heater

Prog. Mode Routine, Sustain and Control mode. Facility for 20

different test setups available in Routine and Sustain

mode.

PC Connectivity USB interface available

STIRRER

25 - 200 RPM, ± 1 RPM Speed

Resolution 1 RPM Accuracy ± 1 RPM

**TEMPERATURE** 

30 to 50 °C Range ±0.2 °C Accuracy

Temp. Control Microprocessor Based using PT100/Semiconductor

Sensor

SAMPLE

Reaction Vessel 1000 ml jars with stirrer pedals and baskets

1 KW Heater

230 V ± 10%, 50 Hz. AC Power

#### SALIENT FEATURES

- Complies with USP, IP specifications
- Extremely Useful for Pharmaceutical Labs
- Highly Accurate and Easy to Operate
- Programmable Stirrer Speed Control i.e. (25 200 RPM)
- 20 x 4 Line Alphanumeric LCD with Backlit
- 19 Soft Touch Membrane Type Keys
- ✓ USB Interface Available
- Three Programming Modes i.e. Routine, Sustain and Control
- 20 Independent Programmable Setups for Routine and Sustain
- Mode with Storage Facility
- 400 Samples Storage Facility
- Printer Attachment Facility
- Audio Visual Indicators for System Status
- Easy to Empty & Clean the Water bath with Bottom Drainage
- Continuation of Last Sample Run in case of Power Failure

#### STANDARD ACCESSORIES

Main Unit with Acrylic Tank and Rectangular Cover Plate and Water Bath Temperature Sensor (T1)

Heater bath circulating pump

External Temperature Sensor (T2) for Vessel Reaction Vessel capacity 1000 ml ((8 Nos.) Round Acrylic Cover Plate with Hole and a large

slit(8 Nos.)

S.S. Paddle, S.S Wire Mesh Basket (8 Nos.)

Glass pipettes with rubber bellows

Mains Lead Instruction Manual

**Dust Cover** 









Printer

Speed

## 731 MICROPROCESSOR

**DISINTEGRATION TEST APPARATUS** 

#### **TECHNICAL SPECIFICATIONS**

Display 20x4 line alphanumeric LCD display with backlit

Keyboard 15 soft touch membrane keys

LED's available for different status indications.

3 LED's for Test status like Run, Alarm, End and

one LED for heater on/off status.

Setup Data Facility for 20 different test setups available

Provision for the attachment of dot-matrix printer

with centronics parallel port interface 55 mm.  $30 \pm 1$  strokes per minute

Resolution 1 Sec — 99 Minutes Temp. Range  $20^{\circ}\text{C} - 50^{\circ}\text{C}$  Temp. Accuracy  $\pm 0.2 \,^{\circ}\text{C}$ 

Temp. Control Microprocessor based using

PT100/Semiconductor Sensor

Reaction Beaker 1000 ml

Heater 0.4 KW (Approx.)

PC Connectivity USB interface available

Power 230 V  $\pm$  10% AC. 50 Hz

Dimensions 365 x 350 x 495 mm (L x B x H) (Approx.)

Weight 9 Kg (Approx.)

## 74/73 DIGITAL

#### DISINTEGRATION TEST APPARATUS

#### **TECHNICAL SPECIFICATIONS**

Type of Heating Hot Plate

Up-down Speed 30  $\pm$  2 strokes/min Up-down Length 55  $\pm$  5mm

Time Control Digital (Programmable from 1 sec to 99hr, 59min, 59 sec)

Electric Motor Low rpm A.C. Motor
No. of Basket Two (One in Model 73)

Audio Alarm at completion Yes
Hold & Resume Facility Yes



#### **SALIENT FEATURES**

- ✓ Complies with USP. IP specifications
- Extremely useful for pharmaceutical labs
- ✓ Highly Accurate and Easy to Operate
- ✓ Baskets 'UP' & 'DOWN 'movement as per IP/USP Specifications
- √ 20 x 4 Line Alphanumeric LCD with Backlit
- √ 15 Soft Touch Membrane Type Keys
- ✓ 20 Setups Storage Facility
- √ 400 Samples Storage Facility
- ✓ USB interface available.
- Audio Visual Indicators for System Status

#### STANDARD ACCESSORIES

External Temperature Sensor

Mains Lead

Instruction Manual

**Dust Cover** 







#### SALIENT FEATURES

- ✓ Programmable Time With Digital Display
- ✓ Auto Stop After Completion Of Set Time With Alarm
- ✓ Memory For Protection Of Running Test In Case Of Power Failure
- ✓ Separate Regulator for Control Of Heating
- ✓ Facility For Hold And Resume The Running Test For Inspection of Sample





FRIABILITY APPARATUS

#### **TECHNICAL SPECIFICATIONS**

Test Methods Time and Count Mode Speed of Drums 20 — 60 RPM  $\pm$  0.5 RPM

No. of Drums 2

Display 20x4 Alphanumeric LCD

Keyboard Soft touch membrane keys, alphanumeric mobile keypad

Counter 1 to 9999 rotations

Timer 1 sec to 9 hrs 59 min 59 sec

Type of Drive Direct Drive with Stepper Motor

Printer Parallel Printer

PC Connectivity USB interface available

Storage 200 Sample reading with batch number, sample number

Electrical Supply 230 VAC  $\pm$  10%, 50/60 Hz, 44VA Dimensions (LxBxH) 335mm X 330mm X 340mm

Weight 12 Kgs

### SALIENT FEATURES

- ✓ Complies with USP, IP specifications
- ✓ Microprocessor based, easy to use
- 20 x 4 line alphanumeric LCD display with backlit
- 16 Soft touch membrane type keys
- Independent programmable setups for Time & Count mode with storage
- Password-protected user access
- ✓ Facility to attach with weighing balance
- Automatically calculates percentage friability
- Loading and unloading of tablets without removing drums
- Power Failure detection facility
- User friendly operation with menus & current status indicators.
- ✓ USB interface available.



NARRANT

YEAR



FRIABILITY TEST APPARATUS

#### **TECHNICAL SPECIFICATIONS**

Rotation Speed 25±

Time Range 1 sec to 99 min 59 sec No Of Wheels Two (One in Model 71)

Test Time Programmable Programmable

Electric Motor Low rpm A.C. Motor

Auto Removal of sample Yes
Audio Alarm at completion Yes



#### SALIENT FEATURES

- ✓ Programmable Time With Digital Display
- ✓ Auto Stop After Completion Of Set Time With Alarm
- ✓ Auto Removal of Sample Without Opening the Drum
- ✓ Precise Control of RPM 25±1

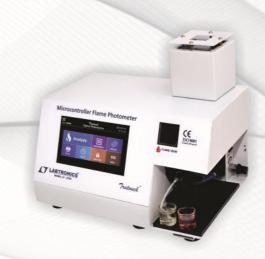








FLAME PHOTOMETERS TOUCH SCREEN



#### **TECHNICAL SPECIFICATIONS**

RANGE

 General Range
 Serum Range
 Urine Range

 ppm meq/1
 meq1
 Na : 0-100 0-200 meq/l, 1:100 dil. 0-250

meq/l, 1:100 dil. K :0-100 0-10 meq/l, 1:100 dil. 0-100 meq/l, 1:100 dil. Ca :0-100 0-10 meq/l, 1:2 dil.

Li : 0-100 0-2 meq/l, 1:5 dil. Ba : 30-3000 (all meq values are claimed with appropriate dilution)

SENSITIVITY General Mode: Na: 0.5 ppm, K: 0.5 ppm, Li: 0.5 ppm,

Ca:15 ppm Ba: 30ppm

FILTERS Na & K Supplied (Ca, Li & Ba are optional at extra cost)

{Factory Fitted Only}

RESOLUTION 0.1 ppm / 0.1 meq.

REPRODUCIBILITY < 1% coefficient of variation for 20 consecutive samples using 10 ppm Na set as Maximum Standard up to 3% CV

using 10 ppm Na set as Maximum Standard up to 3% CV for 20 consecutive samples of Concentrations between

50 to 199 ppm for Barium.

LINEARITY < 2% error when 3 ppm Na/K and 5 ppm Li are set as Maximum Std.

CURVE FIT ACCURACY ± 2% of FS
DISPLAY Colored Touch Screen
AVERAGE TIME In-built in Software
FLAME SYSTEM LPG & Dry Oil Free Air

DETECTOR Photodiode

CALIBRATION with up to 25 Standards of user choice with curve fitting

software (5 for each Element). Multiple Calibration

Curves can be stored in the memory

GAS CONTROL Adjustable with knob
ASPIRATION TIME 3 ml per Minute
FLAME FAILURE Auto Detection
GAS CUTTOFF Automatic
IGNITION SYSTEM Auto Ignition
AUTOMISER Axial Flow Type

DIMENSIONS Instrument : 365 x 245 x 220 mm Approx. (LxBxH)
PRINTER Provision for attachment of Dot-Matrix Printer with

centronics parallel interface

PC INTERFACE USE

WEIGHT Main Unit : 8 Kg. (Approx.) POWER SUPPLY 230 V AC  $\pm$  10%, 50 Hz

#### SALIENT FEATURES

- √ 7 inches colored touch screen
- Password protected data login facility
- ✓ Auto Gas Cutoff Facility
- Auto Flame Failure Detection Facility
- ✓ µP Based With Printer Interface
- ✓ Five Element Measurement In Single Aspiration of the Sample
- ✓ Curve Calibration Programmability using Maximum of 25 Standards
- Data Processing Through Curve Fitting Techniques Least Squares, Quadratic
- ✓ Multiple Calibration Curves Saving Facility
- Samples Data Storage Facility
- Printer Attachment Facility
- Measurement in ppm & meq
- Useful For Both Medical & Soil Testing Applications
- ✓ Setup Storage Facility up to 10 setups files

#### STANDARD ACCESSORIES

Air Compressor

Chimney

Sample Beakers

Manual

Air & Gas Tubing USB Cable

Main Lead









## 671/672 **MICROPROCESSOR**

FLAME PHOTOMETERS



#### **TECHNICAL SPECIFICATIONS**

R	Α.	8.1	0	_
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LINEARITY

General Range	Serum Range	Urine Range		
ppm	meg/l	meg/l		
Na: 0-100	0-200 meg/l, 1:100 dil.	0-250 meg/l, 1:100 dil.		
K: 0-100	0-10 meg/l, 1:100 dil.	0-100 meg/l, 1:100 dil.		
Ca: 0-100	0-10 meg/l, 1:2 dil.			
Li: 0-100	0-2 meg/l, 1:5 dil.			
Ba: 30-3000	(all meq values are claimed with appropriate dilution)			
SENSITIVITY	General Mode	e: Na: 0.5 ppm, K: 0.5 ppm, Li: 0.		
	ppm, Ca:15 ppm Ba: 30ppm			

Na & K Supplied (Ca, Li & Ba are optional at extra cost) & **FILTERS** 

Factory Fitted only 0.1 ppm / 0.1 meq.

RESOLUTION < 1% coefficient of variation for 20 consecutive samples REPRODUCIBILITY using 10 ppm Na set as Maximum Standard up to 3% CV

for 20 consecutive samples of Concentrations between 50 to 199 ppm for Barium.

< 2% error when 3 ppm Na/K and 5 ppm Li are set as

Maximum Std. ± 2% of FS

CURVE FIT ACCURACY DISPLAY 128 x 64 Graphical LCD AVERAGE TIME In-built in Software FLAME SYSTEM LPG & Dry Oil Free Air

DETECTOR Photodiode

With up to 25 Standards of user choice with curve fitting CALIBRATION software (5 for each Element). Multiple Calibration

Curves can be stored in the memory

ASPIRATION TIME 3 ml per Minute GAS CONTROL Adjustable with knob FLAME FAILURE Auto Detection GAS CUTTOFF Automatic IGNITION SYSTEM Auto Ignition AUTOMISER Axial Flow Type

DIMENSIONS Instrument: 365 x 245 x 220 mm Approx. (LxBxH)

PC INTERFACE

WEIGHT Main Unit: 8 Kg. (Approx.) POWER SUPPLY 230 V AC ± 10%, 50 Hz

#### SALIENT FEATURES

- Auto Gas Cutoff Facility
- Auto Flame Failure Detection Facility
- Inbuilt Thermal Printer (In Model 672)
- μP Based With Printer Interface
- Five Element Measurement In Single Aspiration of the Sample
- Curve Calibration Programmability using Maximum of 25 Standards
- Data Processing Through Curve Fitting Techniques Least Squares,
- Multiple Calibration Curves Saving Facility
- Samples Data Storage Facility
- Online Help Key
- Printer Attachment Facility
- Measurement in ppm & meq
- Useful For Both Medical & Soil Testing Applications
- Setup Storage Facility up to 10 setups files
- Supplied with Compressor Unit

#### STANDARD ACCESSORIES

Air Compressor

Chimney

Sample Beakers

Manual

Air & Gas Tubing **USB** Cable

Main Lead

ARRANT YEAR











## 66/65 DIGITAL

FLAME PHOTOMETERS



#### **TECHNICAL SPECIFICATIONS**

ACCURACY  $\pm$  2% up to 100 meq,  $\pm$  2% up to 40 ppm  $\pm$  5% above

100 meq, ±5% above 40 ppm

READOUT Dual 2½ digit bright red LED displays in (Model LT-66)

IGNITION SYSTEM In-built electronic Ignition by press of a knob

DIMENSIONS 375 X 245 X 220 mm (Approx.)

WEIGHT 8 Kg. (Approx.)

MEASUREMENT SYSTEM Simultaneous measurement of 2 elements on dual

LED display (Model 66 Only)

REPEATABILITY ± 2 Counts

DETECTOR Silicon Photodiode

FILTERS Narrow band interference glass filters (Na, K Filters are

Supplied, Ca & Li filters are optional at extra cost)

NEBULIZER Black bakelite, axial flow type FLAME SYSTEM LPG and dry oil free air

WARM UP TIME 10 minutes

COMPRESSOR UNIT Supplied along with the instrument

POWER 230V±10% AC, 50Hz

#### **SALIENT FEATURES**

- ✓ Dual Channel in Model LT-66
- ✓ Stainless steel round burner
- ✓ Concentric Non-Corrosive Nebulizer
- ✓ Narrow Band interface Filters
- ✓ Dual 2½ digit red LED display
- ✓ Highly Stable & Accurate

#### STANDARD ACCESSORIES

Air Compressor

Chimney

Sample Beakers

Manual

Air & Gas Tubing

Main Lead









KARL FISCHER MOISTURE TITRATOR TOUCH SCREEN



#### **TECHNICAL SPECIFICATIONS**

Measuring Range 10 ppm to 100 % of moisture

Measuring Method Karl Fischer Volumetric Titration Method

K.F. Dispensing System Highly sensitive motorized dispensing system

Resolution of Titrant Volume 0.01 ml

Indication of Titrant Volume 0.00 to 99.99 ml

Auto Moisture content Calculation %0.01 to 100%, 10 to 999999 ppm, 0.00 to 999.99 mg

 $H_2O$ 

Calibration Auto K.F. Titer/Factor calculation

End Point Indication Audio

Wait Time for End Point Adjustable 1 to 99 seconds
Display 7" Colored Touch Screen

Storage Sample result & setup data storage facility
Clock In built clock with date & time display

Stirrer In built magnetic stirrer with adjustable speed

Reagent Bottles 250 ml bottles for KF Reagent, methanol & calcium

chloride

Printer Interface Dot matrix printer interface

Power Supply 12V/2A DC Supply

#### **SALIENT FEATURES**

- √ 7 inches colored touch screen
- Password protected data login facility
- ✓ Microprocessor Based with Printer Interface
- ✓ User Friendly and Menu Driven Software.
- $\checkmark$  Direct Results in ppm, % and mg  $H_2O$  on single display screen
- Setup Data Storage Facility
- ✓ Sample Data Storage Facility
- ✓ Batch-Wise, Date-Wise and Individual Result Data Printing
- ✓ RS232/USB Interface (Optional)

#### STANDARD ACCESSORIES

**Dual Platinum Electrode** 

Teflon Coated Magnetic Stirring Capsule

250 ml Bottle for K.F Reagent 250 ml Bottle for Methanol

250 ml Bottle for Calcium Chloride

Reagent Outer

25 µl Auto pipette

Adapter for Calcium Chloride Bottle

Adapter for K.F. reagent Bottle

Set of connecting tubes

Set of dispensing tubes & nozzles

Titration Vessel

Power supply Adapter

Rubber bellow

Instruction Manual







KARL FISCHER MOISTURE TITRATOR



#### **TECHNICAL SPECIFICATIONS**

Measuring Range 10 ppm to 100 % of moisture

Measuring Method Karl Fischer Volumetric Titration Method

K.F. Dispensing System Highly sensitive motorized dispensing system

Resolution of Titrant Volume 0.01 ml

Indication of Titrant Volume 0.00 to 99.99 ml

Auto Moisture content Calculation %0.01 to 100%, 10 to 999999 ppm, 0.00 to 999.99 mg

H,0

Calibration Auto K.F. Titer/Factor calculation

End Point Indication Audio

Wait Time for End Point Adjustable 1 to 99 seconds

Keypad 20 keys

Display 128 x 64 Graphical LCD

Storage Sample result & setup data storage facility
Clock In built clock with date & time display

Stirrer In built magnetic stirrer with adjustable speed

Reagent Bottles 250 ml bottles for KF Reagent, methanol & calcium

chloride

Printer Interface USB Interface

Power Supply 12V/2A DC/230V A.C Supply

#### SALIENT FEATURES

- ✓ Microprocessor Based with Printer Interface
- ✓ User Friendly and Menu Driven Software.
- ✓ Direct Results in ppm, % and mg H₂O on single display screen
- Setup Data Storage Facility
- ✓ Sample Data Storage Facility
- √ 128 x 64 Graphical LCD
- ✓ Batch-Wise, Date-Wise and Individual Result Data Printing
- ✓ USB Interface available
- ✓ Parallel Printer Port available

#### STANDARD ACCESSORIES

**Dual Platinum Electrode** 

Teflon Coated Magnetic Stirring Capsule

250 ml Bottle for K.F Reagent

250 ml Bottle for Methanol

250 ml Bottle for Calcium Chloride

25 µl Auto pipette

Adapter for Calcium Chloride Bottle

Adapter for K.F. reagent Bottle

Set of connecting tubes

Set of dispensing tubes & nozzles

Titration Vessel

Power supply Adapter

Rubber bellow

Instruction Manual

Dust cover









## 63 AUTO

KARL FISCHER TITRIMETER

#### **TECHNICAL SPECIFICATIONS**

DISPLAY Array of 10 LED'S SAMPLE SIZE 1-50mg of  $H_2O$ 

INDICATION RUN, ADD, END LED'S
KF FLOW Auto Control Valve
BURETTE Auto Zero 10ml Burette
TIMER Adjustable Timer

DISPENSING RESOLUTION 0.05ml

MEASURING ELECTRODE Dual Platinum KF Electrode POWER 230 V  $\pm$  10%, 50 Hz. AC



#### STANDARD ACCESSORIES

Auto Titration Control
Auto Zero Burette
Adjustable Timer
Visual & Audible Alarm



NARRANT

YEAR

## 37/36 MICROPROCESSOR

**COLONY COUNTERS** 

#### **TECHNICAL SPECIFICATIONS**

DISPLAY 3 - Digit Seven Segment LED in Model LT-36

4 - Digit Seven Segment LED in Model LT-37

MAX COUNT 999 in Model LT-36, 9999 in Model LT-37

KEYBOARD 6 soft touch membrane keys

CORRECTION Count correction facility available to cancel the

unwanted counts

STORAGE 125 Result-count storage retained even if the system

is switched off

AVERAGE Average mode facility available

DISH SIZE 110 mm

MAGNIFICATION x 1.7 surface magnification

DIMENSIONS (L x B x H) 255 x 220 x 100 mm (Approx.)

WEIGHT 3 Kg. (Approx.)
POWER 230 V±10% AC, 50 Hz



#### SALIENT FEATURES

- Count Correction Facility
- ✓ Result-Count Storage
- ✓ Audible Confirmation of Each Count
- Auto Marker Pen
- ✓ Uniform Glare Free Illumination
- Wolffhugel Glass Grid with Focussing Facility
- ✓ LED Based Illumination









## 21 DIFFERENTIAL

**BLOOD CELL COUNTER** 



#### **TECHNICAL SPECIFICATIONS**

CELL COUNTING KEY 16 Keys

TOTAL KEYS 16 Keys (8 Cell keys and 3 Function keys)

BODY Metal Body

 DISPLAY
 16x2 Line LCD Display

 MAINS INPUT
 230V ± 10% AC, 50 Hz

 WEIGHT
 1.5 kg (Approx.)

DIMENSIONS 250 x 230 x 150 mm (LxBxH)

#### **SALIENT FEATURES**

- ✓ Facility to count 8 Types of Cells
- √ 16x2 Line Alphanumeric LCD Display
- ✓ Automatic percentage (%) calculation
- ✓ Individual cells counting facility
- ✓ In-built Stop Watch and Timer function
- ✓ Audible beep facility



## 43 BLOOD ROLLER MIXER

#### **TECHNICAL SPECIFICATIONS**

ROLLER SIZE 230mm
CONTROLS Analog
NO. OF ROLLERS 4

SPEED 33rpm (Approx.)
MAXIMUM LOAD 5 test tubes

TIMER No

POWER SUPPLY 230V  $\pm$  10% AC 50Hz.



#### **SALIENT FEATURES**

- Rocking and rolling action for complete Mixing
- ✓ Four roller design with small footprint
- Designed for continuous quiet operation
- ✓ Ambient temperature range +4°C to +60°C







MELTING/BOILING POINT APPARATUS WITH HD CAMERA & 7"LED

#### **TECHNICAL SPECIFICATIONS**

Display 128x64 Graphical LCD & 7" LED HD Display

Temperature 0 to 300°C
Temperature Resolution 0.1°C

Cailbration Using Software

Amount of Sample Fine powder properly dried at a temperature

considerably below its melting point 4 to 6mm

high

Oil Bath Silicon Oil-bath beaker 200 ml capacity with

Teflon cover fitted with oil immersion heater and having three holes for holding the capillaries, one for boiling point tube and one for temperature

senso

Power 230  $\pm$  10% VAC 50 Hz

Storage 1000 Samples result with date, time, sample

number and batch number

Data Output Through USB Port

Sample Display Facility to display stored sample results

Batch Facility to enter batch number while storing

sample results

Stirrer On/OFF using key

Stirrer Speed Controllable using stirrer keys

Stirrer Indication Stirrer On Icon appears on the screen when the

stirrer is ON. When it is off, no icon comes

Modes Three heating Modes-Slow Mode, Normal Mode

and Rapid Mode

Sample Type Selection for samples whose melting point is

known or whose melting point is not known

Camera HD camera to view capillaries

Display 7" LED HD Display



#### STANDARD ACCESSORIES

Capillaries 1 Box.
Capillaries 1 Box.
Silicon Oil 1 Bottle

Main Lead USB Cable Software CD









MELTING POINT APPARATUS

#### **TECHNICAL SPECIFICATIONS**

No. of samples 1 sample at a time
Temperature Range Ambient to 300°C

Temperature Accuracy  $\pm$  1°C at 200°C &  $\pm$ 2.5°C at 275°C

Temperature Sensor Platinum Resistance PT100
Selectable heating modes Slow, Medium and Rapid
Display 128x64 Graphical LCD Display

No of keys

Memory Storage upto 1000 results
Power 230 V AC +10%, 50 Hz

## 115 DIGITAL

MELTING POINT APPARATUS SILICON OIL BASED

#### **TECHNICAL SPECIFICATIONS**

DISPLAY 4 Digit Seven Segment LED display

TEMPERATURE Ambient to 275°C

RESOLUTION 1°C

CAPILLARY GLASS TUBE 100mm long, 0.8 to 1.1 mm Internal diameter

BOILING POINT 6x75mm glass tube
SAMPLE SIZE Fine powder properly dried

OIL-BATH Silicon oil bath beaker - 200 ml capacity with Teflon cover fitted with oil immersion heater. It is

having three holes for holding the capillaries, one for boiling point tube and one for thermometer

STIRRER SPEED POWER Controllable with front knob

POWER 230V ± 10% AC,50 Hz

WEIGHT 6 Kg. (Approx.)



#### SALIENT FEATURES

- √ 128x64 Graphical LCD display with backlight
- ✓ Icon-based navigation menu for ease of operation
- Selectable heating modes (slow, medium and Rapid)
- ✓ Storage up to 1000 results
- Quick Cooling with Integrated fans
- Audio and Visual Indicators for System Status
- Quick Cooling with integrated Fans

#### STANDARD ACCESSORIES

Capillaries 1 Box
Cleaning tool 1 Nos.
USB Cable 1 Nos.
Software CD 1 Nos.





#### STANDARD ACCESSORIES

Box of Capillaries

Glass Tubes for Liquid Sample (6 x 75 mm)

2 Nos.

Magnetic Capsule

Bottle of Silicon Oil - 250 ml

Glass Cylindrical Beaker with Teflon cover fitted

with immersion heater

Instruction Manual, Dust Cover









# 780 EM DIGITAL TABLET

HARDNESS TESTER

#### **TECHNICAL SPECIFICATIONS**

Display LCD with backlit display
Keyboard User Friendly 9 Keys operations

 $\begin{array}{ll} \mbox{Hardness Range} & \mbox{5-500 N} \\ \mbox{Hardness Accuracy} & \pm 0.05\% \mbox{ FS} \end{array}$ 

Measuring Units N(Newton), KGF (Kilogram Force) and Lbf (Low bound

Force)

Interface Ports RS-232

Dimensions 360 x 65 x 100 mm

Electrical Power Adapter 230 V, 50Hz to DC 12V, 300 mA

Battery 1200 mAH, 8.4V, Ni-Hi Rechargeable Battery

Peak Force Measurement: Yes Acrylic Safety Glass Cover Yes

Stored Results Upto 10 (also calculate the average value of test results)

Tablet Size Yes (2mm to 28 mm)





## 77 DIGITAL BULK

**DENSITY APPARATUS** 

#### **TECHNICAL SPECIFICATIONS**

Maximum Counts 9999

Display 4 Digit 7-Segment Red LED
Keyboard 6 Soft Touch Membrane Keys
Cylinder 2 Nos., 50/100 ml Cylinders

Drop Height 25 mm (Approx.) Power 230 V  $\pm$  10% AC, 50 Hz. Dimensions 600 x 450 x 200 mm (Approx.)

Weight 12 Kg (approx.)
Accessories 50 ml Cylinders — 2 Nos.,

Instruction Manual & Dust Cover



#### SALIENT FEATURES

- ✓ Extremely useful for Pharmaceutical Lab
- Highly Accurate and Easy to Operate
- Microcontroller Based Digital Display
- ✓ Soft Touch Membrane Keys
- √ 3 LED's for status Indication
- ✓ Audible Alarm Sound
- ✓ Last Count Retention on Power Failure











## 75 DIGITAL

LEAK TEST APPARATUS

#### **TECHNICAL SPECIFICATIONS**

Type GMP Model, In-built Test Unit

Time Control & Range Digital, Programmable, 00.01 sec to 99min 59sec

Test Vacuum Range Adjustable up-to 650 mmHg Vacuum Display 2.5" SS Vacuum Gauge

Vacuum Control & Release By Single Front Panel Knob

Audio Alarm at completion Yes

Vacuum Pump Oil free, MV 27" ± 5%,1/4HP Motor

Test Unit Size 200mm, 250mm & 300mm (any one) (Specify in Order)



#### **SALIENT FEATURES**

Programmable Time With Digital Display

Auto Stop After Completion Of Set Time With Alarm

Precise Control of Vacuum

Heavy Duty Oil-free Vacuum Pump

1mm Thick SS-304 cabinet



## 76 DIGITAL

MOISTURE BALANCE

#### **TECHNICAL SPECIFICATIONS**

Weighing Range 50g
Readability 1mg
Repeatability (3g samples) 0.20%
Minimum Sample Amount 0.5g
Advised Sample Amount 3-10g

Heat up time 1-99minutes, 1 minute Interval

Temperature Program Standard
Terminal Control Timing , Automatic
Heating Temperature Range 50-180°C

Showing Content Moisture%, Solid%, Weight, Time, Data etc

 Heating Source
 Halogen Lamp

 Pan Size
 100mm

 Dimension
 265x160x150mm

 Net Weight
 5Kgs

 Packages Size
 530x380x340mm

Gross Weight 6kgs



#### **SALIENT FEATURES**

- ✓ Window matrix liquid crystal display (LCD)
- ✓ High precision heat insulation.
- Automatic peeling function.
- ✓ Halogen drying method
- ✓ Highly accurate & stable

#### STANDARD ACCESSORIES

Calibration Weight Weight Plier Scale Plier Pan Pan Support

Pan Support Power Cable









### NEW 7510 **AUTOMATIC POLARIMETER**

TOUCH SCREEN

#### TECHNICAL SPECIFICATIONS

4 Test modes Optical rotation, specific rotation, sugar degree and concentration

LED Light source

±45° (optical rotation) ± 120° Z(sugar) Measurement range

Wavelength 589.3nm

Minimum indicating value 0.001° (optical rotation)

a)  $\pm 0.01^{\circ}$  (-15° < optical rotation < +15°) b)  $\pm 0.02^{\circ}$ Accuracy (optical rotation < -15° oroptical rotation > +15°)

Repeatability 0.002° (optical rotation)

Color Touch Screen Display Test tube 200mm, 100mm

Sample transmittance > 1% Interface USB & Rs232 Operation voltage 220V ± 22V, 50Hz

850mm x 500mm x 470mm **Overall Dimensions** 

Weight(Gross) 38ka Software

### SALIENT FEATURES

- ✓ Touch Screen Colour Display
- Temperature Display
- ✓ Measurement of dark-colored sample
- USB & RS232
- No warm-up time is required when instrument is switched on
- Insulated Sample chamber to keep sample temp. constant
- Photodiode Detector



## 750 **DIGITAL**

AUTOMATIC POLARIMETER

#### TECHNICAL SPECIFICATIONS

Test modes Optical rotation, sugar degree

Light source LED Wavelength 589.44nm

±45° (optical rotation) & ±120°Z (sugar) Measurement 0.001° (optical rotation)0.01°Z (sugar) Minimum indicating value Accuracy

±(0.01+measurement value x 0.05%)° Z (optical rotation) ±(0.03 + measurement value x 0.05%)° Z

(sugar)

<0.002° (optical rotation)

Display LCD

Test tube 200mm, 100mm Sample transmittance >1%

Rs232 Interface

220 ± 22v,50Hz Operation voltage

Overall dimensions 730mm X 480mm X 470mm

Weight (gross) 36kgs Software Yes



#### STANDARD ACCESSORIES

Sample tubes 100mm, 200mm

Software kit: RS232 cable, software CD

Main lead

Fuse

Instruction manual.





Repeatability







## 740 DIGITAL

**AUTOMATIC POLARIMETER** 

#### **TECHNICAL SPECIFICATIONS**

Measuring Range ± 200° (Sugar Scale) & ± 70° (optical rotation)

±/2% (Full Scale) Accuracy

Resolution

Display Graphical LCD (128 x 64) 4-Keys for Menu Operation Keys Calibration Mode 2 Point (zero & span)

Interface

In-built clock with date and time display RTC

Data Storage capacity 1000 Logs with Date & Time 230VAC ±10 %, 50Hz Power Supply



#### SALIENT FEATURES

- ✓ Micro processor Based
- ✓ User Friendly and menu driven software
- √ 128 x 64 Graphical LCD
- ✓ Two point calibration.
- ✓ USB Interface
- ✓ USB Port for interfacing the system with PC.
- ✓ One can see the stored logs on the system before printing
- ✓ Internal storage capacity of 1000 logs with date and time



#### ABBE REFRACTOMETER

738 🔤

DIGITAL

#### **TECHNICAL SPECIFICATIONS**

MEASURING MODES 1. Refractive Index

2. Brix of sugar solution 3. Brix TC of sugar solution

4. Automatic detect Temp. shown in display

Measurement range nD1.30000- 1.70000

Brix:0-100%

 $nD \pm 0.0002$ Measuring Accuracy

Brix ±0.1%

Measuring Resolution  $(nD) \pm 0.0001$ 

Temperature Range

(Min. 0.1° C) 0-50° C Weight (Gross) 12kg

Overall Dimensions 370mm x 240mm x470mm

#### SALIENT FEATURES

- Measurement of refractive index nD of transparent or translucent liquid and solid substances.
- Measurement of the Brix of sugar solution.
- Visual aim and LCD display.
- Automatic correction of the effect of temperature on the Brix.
- Prism made of hard glass.
- ✓ RS 232

#### STANDARD ACCESSORIES

- 1 Calibration standard,
- 1 Hex key,
- 3 lamps 6.3V. 0.25 A.
- 3 fuses 1 A.
- 1 RS-232 Cable
- 1 Software CD Manual
- 1 Main Lead
- 1 Operating Manual
- 1 Dust cover



NARRANT

YEAR







# 7310 EDIGITAL VISCOMETER

TOUCH SCREEN



Measuring Range(mPa.s)

RPM

No of Standard Spindles

Measurement Accuracy : Repeatability

Display

Temperature RTD Monitoring

Sensor Probe :

Output Power Supply

Dimension LxWxH (mm)

Weight

20-2,000,000(mPa.s)

0.3, 0.6, 1.5, 3, 6, 12, 30, 60

#1,#2,#3,#4 is standard configuration,

 $\pm 1.0\%$  of range

 $\pm 0.5\%$ 

LCD Touch Screen

Yes

RS 232 Interface AC 220V/50Hz

400 x 350 x360

9 Kg

## 730 DIGITAL

VISCOMETER

#### TECHNICAL SPECIFICATIONS

Display LCD

Measurement Range 20-400,000 mPAS/C.P

Spindle numbers 4 Spindles Rotor Speed (rpm) 6/12/30/60

Accuracy  $\pm$  5% Newtonian Fluid

Overall Dimensions 340mm x 420m m x 470mm

Net Weight 9kg



#### SALIENT FEATURES

- ✓ Stepping Motor means Accurate, reliable operation
- ✓ Direct readout of all measurement parameters
- ✓ Auto Range Showing
- ✓ Time Function for measurement
- ✓ Sound alarm at under 20% Torque
- ✓ Linear calibration
- ✓ Wide range power supply:100V-240V

#### STANDARD ACCESSORIES

Ascending and falling rack 1 set Protective frame of rotor 1 No.

Rotors (No.1,2,3,4 each Power adapter 1 No.

Power adapter 1 No. Spanner 1 No. Screw diver 1 No.

Socket 1 set





#### STANDARD ACCESSORIES

Ascending and falling rack 1 set
Protective frame of rotor 1 No.
Power adapter 1 No.

Rotors 1,2,3,4 each Spanner 1 No.

Spanner 1 No.
Screw diver 1 No.
Socket 1 set















GRADIENT THERMAL PCR CYCLER TOUCH SCREEN

#### **TECHNICAL SPECIFICATIONS**

Block Formats 96x0.2ml
Temp Range 0°C-99.9°C

Display 7 Inches Colored Touch Screen

Communication USB 2.0/RS 232/RJ45

Intelligent Diagnosis 108

Size(WxDxH,mm) Weight(kg) 380x270x250

## 240 PCR

THERMAL CYCLER

#### **TECHNICAL SPECIFICATIONS**

 $\begin{array}{lll} \mbox{Block capacity} & 64 \times 0.2 \mbox{ml} \\ \mbox{Temp range} & 4^{\circ}\mbox{C} - 99^{\circ}\mbox{C} \\ \mbox{Max Heating rate} & < 2.5^{\circ}\mbox{C/s} \\ \mbox{Max cooling rate} & < 2.5^{\circ}\mbox{C/s} \\ \mbox{Temperature display accuracy} & 0.1^{\circ}\mbox{C} \\ \mbox{Accuracy} & < \pm 2.5^{\circ}\mbox{C/s} \\ \mbox{Temperature fluctuation} & < \pm 0.1^{\circ}\mbox{C} \\ \end{array}$ 

Uniformity 95 °C h<  $\pm$  0.5 °C (20 seconds later)

 $20 \, ^{\circ}\text{C} - 72 \, ^{\circ}\text{C} \, \text{h} < \pm 0.3 \, ^{\circ}\text{C}$ 

(20 Seconds Later)

 Max program unit
 9

 Max Cycle steps
 9

 Max Cycle No
 99

 Max Constant temperature
 59m59s

 Stored program No
 99h59m

 Stored program No
 100

Dimensions 370mm (L) x 249mm (W) x I 80mm (H)

Weight 5 kg



#### SALIENT FEATURES

- Convenient and flexible module replacement modual.
- Large size super-high-defination LCD screen.
- Intuitive, user friendly interface makes program easier and faster.
- Memory function in case of power down
- Low noise, low energy consumption, long service life.
- Solemn, elegant appearance, innovative design.
- Adjustable hot lid prevents reagents from evaporating.
- Optimal panel keypad design for convenient operation.
- Heated lid could be positioned at any angle.
- Handle-module, more secure and convenient for module replacement, improving intercharging efficiency and long life span.



#### SALIENT FEATURES

- Adjustable pressure hot lid,
- ✓ Heat lid with pressure alarm device,
- Convenient and flexible module
- Innovative module wire socket design achieves module replacement without wire.
- The unique left-right design for amplification area and operating area.
- Coloured and Wide Screen displaying Multiple details
- Perform 20000 times non-breakdown operation.



WARRANT

YEAR







### 3101 NEW **BIO-NANO**

**SPECTROPHOTOMETER** TOUCH SCREEN

#### **TECHNICAL SPECIFICATIONS**

Wavelength Range Minimum Sample Size Path Length

Light Source Detector Type Wavelength Accuracy Spectral Resolution Absorbance Precision Absorbance Accuracy

Absorbance Range Detects Nucleic Acid up to Measurement Time

Data Output

Sample pedestal Materia Operating Voltage Operating Power Consumption

Standby Power Consumption Dimension (W x D x H)mm Weight

Software Compatibility Light source Wavelength range Absorbance range

200-800nm  $0.5-2\mu$ l

0.2mm (High concentration) 1.0mm

(Ordinary concentration) Xenon flash lamp

2048 element linear silicon CCD array

1 nm ≤3nm 0.003 Abs

1% (7.332 Abs at 260nm)

0.02-100A 2-5000ng/ul(ds DNA) <5S

Aluminum alloy and quartz fiber 24V DC

25W 5W 210x280x181 3.6kg

Android System OD 600NM Measurement

I FD 600±8nm 0-4A



Micro spectrophotometer

Setup CD Adapter

USB cable

Operation manual





**SPECTROPHOTOMETER** 

#### TECHNICAL SPECIFICATIONS

Wavelength Range Minimum Sample Size Path Length Light Source / Life Detector Type Wavelength Accuracy Spectral Resolution Absorbance Precision Absorbance Accuracy Absorbance Range **Detection Concentration Range** 

**Detection Time** Input Voltage

Dimension (W $\times$ D $\times$ H)

200 - 800nm

 $0.5\mu$ - $2\mu$ l ( $2\mu$ l advised) 0.2mm or 1mm

Xenon flash lamp / >109 flashes 3864 element linear silicon CCD array ±1 nm (TWHM at Hg 253.7nm

≤3nm (FWHM@Hg 253.7nm) 0.003Abs (1mm path length)

±1% (7.332Abs, at 260nm wavelength) 0.04 - 90 (at 260 wavelength, 10mm equivalent) 2ng/ul dsDNA ~ 4,500ng/ul dsDNA

<8 Seconds DC24V 2A 20W

200×250×166mmµ



#### STANDARD ACCESSORIES

Micro Spectrophotometer 1Pc Setup CD 1Pc Adapter 1Pc **USB** Cable 1Pc Operation manual 1Pc





Power







## 1160 AUTOMATIC

**BOMB CALORIMETER** 

#### **TECHNICAL SPECIFICATIONS**

Display 128 x 64 Graphical LCD

Keypad 20 keys Temprature Resolution 0.01°C

Internal Memory 1000 logs with date and time Interface USB interface to PC Printer Inbuilt thermal printer

Time Clock Real time clock with battery backup

Power supply  $230V \pm 10\%/50Hz$ 

#### STANDARD ACCESSORIES

#### **Standard Accessories**

Steel drum Safety valve for high pressure
Bomb with sample holder Oxygen pressure gauge
Stirrer Benzoic acid powder
Temperature probe USB lead

Temperature probe USB lea Chrome wire Toll kit

Pallet press Operation manual

Cotton thread Power supply cable (Main lead)



**BOMB CALORIMETER** 

#### **TECHNICAL SPECIFICATIONS**

Display 3 Digit LED
Temperature accuracy 0.1°C
Temperature Resolution 0.1°C
Temperature Detector RTD
Temp. Range RT. to 99.9°C

Temp. Range RT. to 99.9°C Calculate Manual

Power supply  $230V \pm 10\%/50Hz$ 

#### **SALIENT FEATURES**

- ✓ Manual measurement & calculation.
- ✓ Initial temperature rise & fall.



#### SALIENT FEATURES

- ✓ Automatic measurement & mathematical calculation
- ✓ USB interface for sending data to PC.
- Full test report print out by inbuilt thermal printer.
- Weight of sample, water equivalent & sensitivity can be set through keypad on single page.
- ✓ Automatic detection of temperature rise & fall.





#### STANDARD ACCESSORIES

Steel drum

Bomb with sample holder

Stirrer

Temperature Probe
Nichrome Wire
Pallet press
Cotton thread
Safely valve for high press

Safely valve for high pressure Oxygen pressure gauge Benzoic acid powder

Tool kit

Operation manual

Power supply cable (Main lead)









PROBE SONICATOR

DIGITAL

#### **TECHNICAL SPECIFICATIONS**

Rated power 250w
Input voltage 110V/220v-240v
Input frequency 50Hz-60Hz
Output power ≤250w
Frequency tracking
Power and amplitude adjust 0-100%

Packing size(cm) 32 x 46 x 42cm
Machine weight(kg) 7
Sonotrode length 120mm
Sonotrode diameter 8mm
Sonotrode frequency 20KHz,

Operation panel display time setting working data

Working mode 1s - 99 hours with pause function continuous

working

Generator protection Built-in circuit, Over loading, Over temperature,

Antishort-circuit; Soft start

Cable length 2M
Environment Temp 0 - 40°C

Relative Humidity: <=85% T=20°C

Max temperature of sonotrode  $100^{\circ}$ C Max pressure 5Mpa Treatment capacity of liquid ≤10 L/H Breaker type for batch 20ml-20ml

## 350 ULTRASONIC

#### **CLEANERS**

#### **TECHNICAL SPECIFICATIONS**

Ultrasonic Frequency 40,000 Hz
Material Stainless Steel SS304
Tank Capacity 2.0L, 3.5L & 4.5L,6L
Timer 1-30 Minutes,

Digital timer Power Supply AC 100 — 120V, 50 / 60Hz AC 220 — 240V, 50 / 60 Hz

Ultrasonic Power 240 W

 Heating Power
 200 W, Digital Heating

 Unit Size
 325 x 265 x 280 mm (L x W x H )

 Tank Size
 300 x 240 x 150 mm (L x W x H )

 Package Size
 430 x 365 x 420 mm (L x W x H )

N.W. 6.0 kg G.VV. 7.0 kg



#### STANDARD ACCESSORIES

An Abs Soundproof Box,

A Stainless Steel Lifting Platform,

3 Fuse





- ✓ Stainless steel tank has resistance to wear and long work life.
- With digital timer & heater control.
- ✓ With Stainless steel basket
- Use just tab water, or industrial alcohol and solvent cleaner for more
- ✓ higher cleaning requirement
- Industrial control chip micro controller flexible circuit boards control
- ✓ More secure & stable
- Temperature tunable from 20°C to 80°C.











## 3201 HPLC SYSTEM

#### SPECIFICATIONS (PUMP)

Flow Range 0.001 — 9.999 ml/min
Delivery method Double piston ( Main & Auxiliary)
Pump head 10m1 SST/Peek analytical

Accuracy  $\pm$  1% or  $\pm$  2 $\mu$ L/min, whichever is greater  $\pm$  1% or

 $\pm 1\mu$ L/min, whichever is greater (Micro)

Flow rate settings 0 - 0.10 mL/min. 0.001 inc. 0.10 - 0.90 mL/min 0.010

inc. 1.0 mL/min.+ 0.10 inc

Precision 0.25% from 0.1 mL/min. to 10 mL/min. at 20° C0.25%

from 0.05 mL/min. to 4 mL/min. at 20°C (Micro)

Pmax 6000psi

System connections 1/16" capillaries

Dimensions 410mm x 180mm x270mm

Weight 7.3kgs

Power input 230 V  $\pm 10\%$  50 Hz

Control Stand alone mode using front panel



#### SALIENT FEATURES

- ✓ Self-priming pump head requires no manual priming
- ✓ Patented "Floating Pump Seal" designed for extended seal wear
- Available with micro, analytical, semi-prep, and prep pump heads
- ✓ Programmable solvent compressibility compensation
- Easy maintenance and service for all wetted parts
- Integral prime/purge assembly for quick solvent change

#### SPECIFICATIONS (UV DETECTOR)

 $\begin{array}{lll} \text{Wavelength} & 190\text{-}700 \text{ nm} \\ \text{Spectral bandwidth} & 6 \text{ nm} \\ \text{Wavelength Accuracy} & \leq \pm 1 \text{ nm} \\ \text{Wavelength Reproducibility} & \leq \pm 0.5 \text{ nm} \\ \text{Flow pool volume} & 10 \, \mu \text{ L} \\ \text{Optical path} & 10 \text{ mm} \\ \end{array}$ 

Dynamic Noise $\leq 2.5 \times 10^5$  AU (Methanol, 1ml/min, 254nm)Static Noise $\leq \pm 1 < 10^5$  AU (Empty pool, Response time 1 s)Dynamic Drifting $\leq \pm 2.5 \times 10^4$  AU (Methanol, 1lml/min, 254nm)Static Drifting $\leq \pm 1 \times 10^4$  AU (Empty pool, Response time 1 s)

Qualitative repeatability RSD  $\leq$  0.1% Quantitative repeatability RSD  $\leq$  0.5%

Dimensions 160H x 260W x 350 D, (mm)

Weight 6 kg

Minimum detection concentration  $\leq 1x10^{-8}$  g/mL(Naphthalene/methanol solution)

#### STANDARD ACCESSORIES

Rheodyne Injector 7725 i (USA)

Micro Syringe Column C-18 Software CD

**Filters** 







TOUCH SCREEN pH METER 5 POINT CALIBRATION

#### **TECHNICAL SPECIFICATIONS**

pH Range pH: - 2.0 to 20.0, -2.00 to 20.00, -2.000 to 20.000; ±2000 mV

pH Resolution 0.1, 0.01, 0.001 pH; 0.1,0.01 mV

pH Accuracy  $\pm 0.1$  pH,  $\pm 0.01$  pH,  $\pm 0.002$  pH  $\pm 1$  LSD;  $\pm 0.2$  mV  $\pm 1$ pH Calibration Automatic, up to five point calibration, (1.68, 4.01, 7.01,

9.18, 12.45)

Readout 5 inch high sensitive touch screen display pH Temperature Compensation Automatic or manual from -10.0 to 110.0 °C Temperature Range -10.0 to 110.0 °C, -4.0 to 248.0 °F.

0.1 °C, 0.1 °F,

±0.2 °C, ±0.4 °F, ±0.2 K

Highly sensitive glass body pH electrode with BNC connector and 1 m (3.3') cable (included)

Stainless Steel temperature probe with 1 m (3.3')Cable

(included)

12 VDC adapter (included)

Environment 0 to 50°C (32 to 122°F; 273 to 323 K), RH max 95% non-

condensing

**Dimensions** 160 x 231 x 94 mm



#### SALIENT FEATURES

- 5 Inch touch screen with high resolution and sensitivity.
- Password protected data login facility.
- Measure pH, ORP and Temperature.
- Auto buffer recognition facility.
- Auto sensor check facility.
- 5 point calibration facility.
- Next calibration alarm with date.
- Meet GLP norms.
- PC attachment through USB.
- 1000 data storing facility with file name.



## 501 **MICROPROCESSOR**

5 POINT CALIBRATION pH METER

#### **TECHNICAL SPECIFICATIONS**

pH

ACCURACY

**READ OUT** 

RANGE

RANGE

RESOLUTION

**ACCURACY** 

RESOLUTION

POWER SUPPLY

**ACCESSORIES** 

PRINTER INTERFACE

**ACCURACY** 

**SENSOR** 

CALIBRATION

RELATIVE STABILITY

TEMP. COMPENSATION

Temperature Resolution

Temperature Accuracy

Temperature Probe

pH Electrode

Power Supply

RANGE -2.000 to 20.000 pH RESOLUTION Selectable 0.1, 0.01, 0.001 pH

 $\pm$  0.002 pH  $\pm$  1 digit

128 x 64 dots Graphical LCD Display Auto & Manual with 5-Point Calibration

AUTO BUFFER RECOGNITION 1.680, 4.000, 7.000, 9.200 & 12.450 pH or User Defined

± 0.002 pH/Hour

-5 to 110 °C Auto/Manual

0 to ± 1999.9 mV 0.1 mV & 0.01mV

± 0.1 mV ± 1 digit Temperature

-5 to 110 °C 0.1 °C ±0.1 °C

Semi Conductor Type 230V±10% AC

External Serial RS232 Dot Matrix Printer Interface Combination pH Electrode, Temperature Probe,

Buffer Tablets 4 pH & 7pH, Electrode Stand,



- Measures pH, mV and Temperature
- 5 Point Calibration
- 128 x 64 dots Graphical LCD Display
- Auto Buffer Recognition Facility
- Storage up to 1000 Samples
- PC Attachment through USB













pH METER

5 POINT CALIBRATION

#### **TECHNICAL SPECIFICATIONS**

Temp<sup>0</sup>C **PARAMETER** pH m۷ 0 to 100°C **RANGE** 0.00 to 14.00 pH 0 to 1999.9 mV 0.1°C RESOLUTION 0.1 mV 0.01pH  $\pm 0.01$  pH  $\pm 1$  digit ±0.1°C **ACCURACY**  $\pm 0.1 \text{mV}$ 

TEMP COMPENSATION -5 to 110 °C CALIBRATION Auto/Manual

AUTO BUFFER 4.00, 7.00 & 9.20 pH

READ OUT 128 x 64 dots Graphical LCD Display

STORAGE Up to 1000 Samples PC ATTACHMENT Through USB

KEY BOARD 5 Keys Soft Touch Membrane Type

POWER 230±10% AC WEIGHT 0.8 Kg. (Approx.)



- ✓ Measures pH, mV and Temperature
- ✓ 5 Point Calibration
- 128 x 64 dots Graphical LCD Display
- ✓ Auto-Buffer Recognition Facility
- ✓ Storage up to 1000 Samples
- ✓ PC Attachment through USB



## 49 MICROPROCESSOR

pH METER 5 POINT CALIBRATION

#### TECHNICAL SPECIFICATIONS

**PARAMETER** m۷ Temp°C pH 0.00 to 14.00 pH 0 to 1999.9 mV 0 to 100°C RANGE RESOLUTION 0.01pH 0.1°C 0.1 mV **ACCURACY**  $\pm 0.01$  pH  $\pm 1$  digit  $\pm 0.1 \text{mV}$ ±0.1°C

TEMP. COMPENSATION -5 to 110 °C CALIBRATION Auto/Manual

AUTO BUFFER 4.00, 7.00 & 9.20 pH

RECOGNITION

READ OUT 16X2 LCD Display
STORAGE Up to 1000 Samples
PC ATTACHMENT Through USB

KEY BOARD 8 Keys Soft Touch Membrane Type

POWER  $230\pm10\%$  AC WEIGHT 0.8 Kg. (Approx.)













## 10/11 DIGITAL

pH METERS



**PARAMETER** RANGE RESOLUTION ACCURACY DISPLAY

TEMP. COMPENSATION INPUT IMPEDANCE SLOPE CONTROL RECORDER OUTPUT

**POWER** 

DIMENSIONS **SENSOR ACCESSORIES**  pH 0 to 14.00 pH

0.01 pH ± 0.01 pH 31/2 Digit LED

Manual: 0 to 100 °C (ATC in Model LT-10) > 1012 ohms

mV

 $\pm 1 \, \text{mV}$ 

 $0 \text{ to } \pm 1999 \text{ mV}$ 1 mV

80 to 120% 0 to 10 mV/pH Adjustable

0 to 10 mV/100 mV Adjustable 230 V ± 10% AC, 50Hz 275 x 175 x 76 mm (L x B x H) Combined pH Electrode

pH electrode, Temp. probe (in model Lt10)

electrode stand **Dust Cover & Manual** 





## 23 DIGITAL PH-COND.

**CUM TEMPERATURE METER** 

#### TECHNICAL SPECIFICATIONS

pH MEASUREMENTS pH Resolution 0 to 14 pH 0.01 pH  $\pm$  0.01 pH + 1 digit Accuracy

**CONDUCTIVITY METER** 

0 to 2 & 20mMhos/cm Range Accuracy 0.5% + 1 digit

TEMPERATURE MEASUREMENT

0 ° to 100 ° C Range Resolution 0.1 ° C 0.2 % ± 1 digit Accuracy

**GENERAL SPECIFICATIONS** 

31/2 digit LED display with automatic polarity & decimal Display

point indication. 230 V + 10% AC 50 Hz 75X275X175 mm Power Dimension Weight 21/4 Kgs. (Approx.)











COND-TDS-SAL METER TOUCH SCREEN

#### **TECHNICAL SPECIFICATIONS**

PARAMETER	EC	TDS	SALINITY	TEMP.
RANGE SEL.	Automatic	Automatic	Automatic	_
RANGE	0-20, 0-200mS 0-2, 0-20, 0-200mS	0-2, 0-20, 0-200ppm 0-20, 0-200 ppt	0-20, 0-200ppm 0-2, 0-20, 0-50ppt	0-100°C
ACCURACY	$\pm 0.5\%FS \pm 1Digit$	$\pm 0.5\%FS \pm 1Digit$	±1% FS± 1Digit	± 0.1°C
RESOLUTION	0.01 mS	0.01 ppm	0.01 ppm	0.1°C
CELL CONST	Adjustable (0.05-9.99)	Adjustable (0.05-9.99)	Adjustable (0.05-9.99)	
TEMP. COMP	Auto/Manual 0-50°C	Àuto/Manual 0-50°C	Àuto/Manual 0-50°C	
TEMP. COEFF.	Adjustable (0.1 - 4.0%)	Adjustable (0.1 - 4.0%)	Adjustable (0.1 - 4.0%)	
DISPLAY	5 inches Colored Touc		Action Executed	
PRINTER	USB Interface			
STORAGE	Up to 1000 Samples			
POWER	230V ± 10% AC			
ACCESSORIES	Cond./TDS/Salinity Ce Dust Cover, Instruction	ll, Temperature Probe, Elec n Manual	trode Stand, Mains Lead	d,



#### SALIENT FEATURES

- ✓ 5 inches Colored Touch Screen
- ✓ Password protected data login facility
- ✓ EC, TDS, Salinity & Temperature Measurements
- ✓ Auto Temperature Compensation
- ✓ Auto Ranging Facility
- ✓ Programmable Ref. Temp &
- ✓ Temp. Coeff in EC Mode
- √ 1000 Samples Storage Facility
- ✓ Printer Attachment Facility



## 51 MICROPROCESSOR

COND-TDS-SAL METER

#### **TECHNICAL SPECIFICATIONS**

PARAMETER	EC	TDS	SALINITY	TEMP.
RANGE SEL.	Automatic	Automatic	Automatic	
RANGE	0-20, 0-200mS	0-2, 0-20, 0-200ppm	0-20, 0-200ppm	0-100°C
	0-2, 0-20, 0-200mS	0-20, 0-200 ppt	0-2, 0-20, 0-50ppt	
ACCURACY	± 0.5%FS±1Digit	±0.5%FS±1Digit	±1% FS± 1Digit	± 0.1°C
RESOLUTION	0.01 mS	0.01 ppm	0.01 ppm	0.1°C
CELL CONST	Adjustable	Adjustable	Adjustable	
	(0.05-9.99)	(0.05-9.99)	(0.05-9.99)	
TEMP. COMP	Àuto/Manual	Auto/Manual	Auto/Manual	
	0-50°C	0-50°C	0-50°C	
TEMP. COEFF.	Adjustable	Adjustable	Adjustable	
	(0.1-4.0%)	(0.1-4.0%)	(0.1-4.0%)	
READOUT	128x64 dots Graphica	LCD Display		
KEY BOARD	5 Soft touch membran	e type keys		
PRINTER	USB Interface			
STORAGE	Up to 1000 Samples			
POWER	230V ± 10% AC			
ACCESSORIES		II, Temperature Probe, Elec	trode Stand, Mains Lead	1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dust Cover, Instruction		a out otalia, mano Eua	',
	Buot Gotol, moti dottor	r irrainaur		



- √ 128x64 dots Graphical LCD Display
- ✓ EC, TDS, Salinity & Temperature Measurements
- ✓ Auto Temperature Compensation
- ✓ Auto Ranging Facility
- ✓ Programmable Ref. Temp &
- ✓ Temp. Coeff in EC Mode
- ✓ 1000 Samples Storage Facility
- ✓ Printer Attachment Facility







## 16/26 DIGITAL AUTO

CONDUCTIVITY METERS

#### **TECHNICAL SPECIFICATIONS**

DISPLAY

MEASUREMENT

COND. RANGES

RANGE SELECTION

TEMP. RANGE

Automatic in 5 Ranges

Automatic in 5 Ranges

Automatic in 5 Ranges

Temp. Range

-5 to 110°C

ACCURACY COND.  $\pm 0.5$  % FS  $\pm$  1Digit TEMP. $\pm 0.1$ °C  $\pm$  1Digit TEMPERATURE COMPENSATION Auto: 0 to 50 °C (in Model LT-26 Only) Manual: 0 to

CELL CONSTANT Adjustable on Digital Display
MEASURING CELL Platinum DIP Type
CELL CONST. MEASUREMENT Auto

POWER 230V $\pm$  10% AC Dimensions 270x202x80 mm (LXBXH)

WEIGHT 0.8 Kg approx.
ACCESSORIES Conductivity Cell, Operation Manual, Dust Cover, Cell

Stand, Temperature Probe (with models LT-26)





## 15 DIGITAL AUTO

TDS METERS

#### **TECHNICAL SPECIFICATIONS**

DISPLAY 3½ Digit LED MEASUREMENT TDS

TDS RANGES
RANGE SELECTION
Automatic in 5 Ranges
TEMP. RANGE
-5 to 110°C

ACCURACY COND.  $\pm 0.5$  % FS  $\pm$  1Digit Temp.  $\pm 0.1$  °C  $\pm$  1Digit

TEMPERATURE COMPENSATION Auto: 0 to 50 °C MANUAL 0 to 50 °C

CELL CONSTANT

MEASURING CELL

CELL CONST.

POWER

Adjustable on Digital Display
Platinum DIP Type
Auto Measurement
230V± 10% AC

Dimensions 270x202x80 mm (LXBXH)

WEIGHT 0.8 Kg approx.

ACCESSORIES Conductivity Cell, Operation Manual, Dust Cover, Cell Stand,











BASED PHOTO COLORIMETER

#### **TECHNICAL SPECIFICATIONS**

#### **PH MEASUREMENTS**

**AMPLIFIER** 

DISPLAY 3 Digit Red LED Display.

DISPLAY MODES % T, O.D. and 3 Concentration Modes C1,C2,C3

ZERO ADJUSTMENT Automatic (without Knob Rotation)

ACCURACY  $\pm$  0.02 O.D.

STABILITY ± 0.02 O.d. Per Hour.

LIGHT SOURCE 6.8 Volt , 0.3 Amp Tungsten Lamp/led

Micro Controller Based.

MEMORY In built memory to retain last "K" factor for concentration even after power loss.

SAMPLE VOLUME 1 MI. Minimum. POWER SUPPLY 230 V  $\pm$  10 %, 50 Hz.



#### STANDARD ACCESSORIES

Glass test tubes 5 Nos.
Instruments cover 1 Nos.

Operating Manual 1 Nos.

Spare Lamp 1 Nos. (Fitted inside)

## 116 DIGITAL

FULLY AUTOMATIC COLORIMETER DIGITAL FILTERS

#### **TECHNICAL SPECIFICATIONS**

Range 400-700nm Display Dual Digital Display

Filters Built-in 9 Digital filters >30000 Hours Life Filters Wavelength 400nm, 430nm, 520nm, 520nm, 540nm, 580nm,

600nm, 620nm, 680nm

Display Mode Absorbance &Wavelength
Detector Silicon photo diode
Zero Adjustment Auto zero

Accuracy ± 0.01 0.D.

Stability ± 0.02 0.D. Per Hour

Light Source Highly Accurate Laser Source

Amplifier Micro Controller Based

Volume 1 ml. Minimum

Dimension L 210 X B 160 X H 80 mm (Approx)

Weight 1.5 Kgs. (Approx) Power 230V  $\pm$  10% AC, 50 Hz, Battery Backup 6V Ni-Cd Re-Chargeable Battery

Accessories Set of Test Tube - 6 Nos. Dust Cover - 1 No. Operational

Manual





NARRANT

YEAR







## 114 DIGITAL

PHOTO COLORIMETER AUTO ZERO

#### **TECHNICAL SPECIFICATIONS**

 $\begin{array}{lll} \text{Filters} & 8 \text{ Filters} \\ \text{Accuracy} & \pm 0.02 \text{ O.D.} \\ \text{Reproducibility} & \pm 0.01 \text{ O.D.} \\ \text{Stability} & \pm 0.02 \text{ O.D per hour} \\ \end{array}$ 

Light Source 6.8V, 0.3amp Tungsten Lamp/LED

Key Board 1 Soft touch Key Amplifier I.C. Based

Detector Selenium photocell/Photodiode

Warm-up Time 5 Minutes.

Sample System Tubes 10 mm dia matched glass test Power source 230V $\pm$ 10 % 50Hz.AC.



PHOTO COLORIMETER INBUILT BATTERY

#### **TECHNICAL SPECIFICATIONS**

Filters 8 Filters
Accuracy  $\pm 0.02 \text{ O.D.}$ Reproducibility  $\pm 0.01 \text{ O.D.}$ Stability  $\pm 0.02 \text{ O.D.}$ 

Stability  $\pm$  0.02 O.D per hour

Light Source 6.8V, 0.3amp Tungsten Lamp/LED
Key Board Potentiometer adjustment

Amplifier I.C. Based

Detector Selenium photocell/Photodiode

Warm-up Time 5 Minutes.

Sample System Tubes 10 mm dia matched glass test

Power source 230V± 10 % 50Hz,AC. x 12V Rechargeable

Battery



#### STANDARD ACCESSORIES

Glass test tubes 05 Nos. Instruments cover 1 Nos. Operating Manual 1 Nos.

Spare Lamp 1 Nos. (Fitted inside)





#### STANDARD ACCESSORIES

Glass test tubes 05 Nos. Instruments cover 1 Nos.

Operating Manual 1 Nos.

Spare Lamp 1 Nos. (Fitted inside)









NARRANT

YEAR

## 12 DIGITAL

PHOTO COLORIMETER

#### **TECHNICAL SPECIFICATIONS**

 $\begin{array}{lll} \text{Filters} & 8 \text{ Filters} \\ \text{Accuracy} & \pm 0.02 \text{ O.D.} \\ \text{Reproducibility} & \pm 0.01 \text{ O.D.} \\ \text{Stability} & \pm 0.02 \text{ O.D per hour} \\ \end{array}$ 

Light Source 6.8V, 0.3amp Tungsten Lamp/LED
Key Board Potentiometer adjustment

Amplifier I.C. Based

Detector Selenium photocell/Photodiode

Warm-up Time 5 Minutes.

Sample System Tubes 10 mm dia matched glass test Power source 230V  $\pm$  10 % 50Hz.AC.



#### STANDARD ACCESSORIES

Glass test tubes 05 Nos. Instruments cover 1 Nos. Operating Manual 1 Nos.

Spare Lamp 1 Nos. (Fitted inside)



## 42 DIGITAL

DRY BATH INCUBATOR

#### **TECHNICAL SPECIFICATIONS**

Product Dry bath incubator.

Temperature Range Ambient +5 to 70 Degree Celsius

Temperature Accuracy ± 10 C

Timer range 1 to 99 minutes.

Temp. Sensor Pt100
Temp. Controller PID

Display  $16 \times 2$  alpha-numeric display Block size  $24 \times 12$  mm Tube holders. Block Material Rock solid aluminium block. Power Supply  $230 \text{ volt } \pm 10 \text{ \% AC}.$ 

- ✓ Highly Stable & Accurate
- ✓ Overheat Protection
- ✓ Available with Buzzer Alarm









HAEMOGLOBIN METER

#### **TECHNICAL SPECIFICATIONS**

DISPLAY 3 Digit Red LED Display.

DISPLAY MODES % T, O.D. AND 3 Concentration Modes C1,C2,C3

ZERO ADJUSTMENT Automatic (without Knob Rotation)

ACCURACY ± 0.02 0.D.

STABILITY ± 0.02 O.D. Per Hour.

Light Source 6.8 Volt , 0.3 Amp Tungsten Lamp /led

AMPLIFIER Micro Controller Based.

MEMORY In built memory to retain last "k" factor for

concentration even after power loss.

SAMPLE VOLUME 1 ml. Minimum.
POWER SUPPLY 230 V ± 10 %, 50 Hz



#### STANDARD ACCESSORIES

Glass test tubes 5 Nos. Instruments cover 1 Nos.

Operating Manual 1 Nos.

Spare Lamp 1 Nos. (Fitted inside)



## 113P PORTABLE

HAEMOGLOBIN METER

#### TECHNICAL SPECIFICATIONS

10 Testing Strips

Measuring Range 5-25 gm/dl
Memory 1000 Test results

Auto Calibration

#### STANDARD ACCESSORIES

**HB** Meter

Canister of Test Strips

Code Chip

Control chip

Capillary Trasfer Tube/Dropper

Lancing Device Sterile Lancets AAA Batteries











## 22 DIGITAL

POTENTIOMETER INBUILT STIRRER

#### **TECHNICAL SPECIFICATIONS**

READOUT 3½ digit bright red LED display

RANGE 0 to  $\pm$  1999 mV

RESOLUTION 1 mV

ACCURACY  $\pm$  1 mV  $\pm$  1 digit OPERATING TEMPERATURE 10°C to 50°C INBUILT STIRRER Available

POWER SUPPLY 230V  $\pm$  10%AC, 50 Hz DIMENSIONS 270 x 248 x 101 mm (LxBxH)

WEIGHT 2 kg.

#### SALIENT FEATURES

- ✓ Inbuilt Stirrer
- √ 3½ Digit LED Display
- ✓ Highly Stable & Accurate
- ✓ Compact Design
- ✓ Highly Stable & Accurate

## 32 DIGITAL

POTENTIOMETER

#### **TECHNICAL SPECIFICATIONS**

 RANGE
 0 to ± 1999mV

 RESOLUTION
 1mV

 ACCURACY
 ± 1mV

 INPUT IMPEDANCE
 > 1012 0hms

 OPERATING TEMPERATURE
 100C to 450C

DISPLAY 3½ Digit 0.5" seven segment LED display with auto polarity

indication

POWER 230V  $\pm$  10% AC, 50 Hz. DIMENSIONS 275 x 190 x 78mm WEIGHT 2.5 Kg. (Approx.)

STANDARD ACCESSORIES Reference Electrode :1 No.
Glass Electrode :1 No.
Duet Courter :1 No.

Dust Cover :1 No. Electrode Stand :1 No.



#### STANDARD ACCESSORIES

Glass Electrode	1 No
Reference Electrode	1 No
Dust Cover	1 No
Electrode Stand	1 No
Magnetic Capsule	1 No
Titration Beaker	1 No
Instruction Manual	1 No.





- ✓ Highly Stable & Accurate
- √ 3½ Digit LED Display
- ✓ Rugged & Economical
- ✓ Compact Design







## 340 PORTABLE

TURBIDITY METER RESEARCH GRADE

#### **TECHNICAL SPECIFICATIONS**

Type Portable

Description High-precision Turbidity

Minimum readout (NTU) 0.001

Measuring range (NTU) 0-10, 0-100, 0-1000, 0-4000

 $\begin{array}{ll} \text{Basic error} & \pm 3\%\text{FS} \\ \text{Repeatability} & \leq 0.5\% \\ \text{Zero drift} & \pm 0.5\%\text{FS} \end{array}$ 

Applications Factory condensate water, Domestic sewage

Power Lithium battery3.7v/5200mA

Output Micro USB

Dimensions /N.W. 210x105x65mm/500g SHIPPING SIZE /G.W. 300x240x90mm/1 kg

STANDARD ACCESSARIES Cuvette cup x 2 pc, Charger, Suitcase, Manual



#### SALIENT FEATURES

- ✓ 4.3 inch colored TFT screen
- Contain 200 curves and customize high precision test curve according to measurement ranges. Users can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision.
- ARM9 main control chip makes operations easy, response quick and big storage up to 500M.
- Adopt special and high precision light filter system to ensure the instruments' stability and accuracy.
- Cold light source, narrowband interference, with long lifetime up to 100,000 hours.
- Portable Type: Advanced power management system can show the battery status in real time and be charged via USB port on PC or vehicle.

## 35 MICROPROCESSOR

TURBIDITY METER

#### TECHNICAL SPECIFICATIONS

#### **PH MEASUREMENTS**

DISPLAY 16x2 Lines Alfa Numeric Display.

RANGE Two Ranges 0 to 200.0 & 200 to 1000 JTU/NTU

ACCURACY ± 3% Of Full Scale Deflection In

0-1000 JTU/NTU

SAMPLE SYSTEM 30mm Clear Glass Cuvettes LIGHT SOURCE 6.8 Volt, 0.3 Amp Tungsten Lamp.

DETECTOR Photodiode

MEMORY In built memory to retain both range standard solution and

last set value even after power loss.

CALIBRATION With formazine solution POWER SUPPLY 230 V  $\pm$  10 %, 50 Hz.



#### STANDARD ACCESSORIES

Cuvettes 30 mm Dia. 1 Set
Operation Manual 1 No.
Dust Cover 1 No.



WARRANT

YEAR









## 33/34 DIGITAL

**TURBIDITY METERS** 

#### **TECHNICAL SPECIFICATIONS**

Product Digital Turbidity Metter (LT-33) Digital Nephelometer (LT-34)

DISPLAY 3½ Digit LED 3½ Digit LED

DETECTOR Photocell/Photodiode Photocell/ Photodiode

RANGE 0 to 1000 NTU in 2 ranges 0 to 200 NTU in 2 ranges

RESOLUTION 1 NTU 0.1 NTU ACCURACY  $\pm$  3% FS  $\pm$ 1digit  $\pm$ 2% FS  $\pm$ 1digit

SAMPLE SYSTEM 60 x 25mm Clear Glass Test Tube

LIGHT SOURCE LED

POWER 230V  $\pm$  10%, 50Hz. AC DIMENSIONS 280 x 175 x 110 mm

ACCESSORIES • Test Tubes Set • Operation Manual • Dust Cover



#### **SALIENT FEATURES**

- ✓ Display 3½ digit LED
- √ 30mm flat bottom Test Tube
- √ Range 0-1000 NTU (in Model 33)
- ✓ Ranges 0-200 NTU (in Model 34)
- ✓ Highly Stable & Accurate



## 330 DIGITAL

PHOTO FLUOROMETER

#### **TECHNICAL SPECIFICATIONS**

FLUORO SENSITIVITY Full scale deflection obtained with 1 ppm quinine sulphate

In 0.1 N sulphuric acid (primary wavelength 360 nm)

DISPLAY 3 digit 7 segment Red LED

EXCITATION SOURCE 12V, 50 W Tungsten Halogen lamp

SENSITIVITY RANGE Adjustable in 4 ranges

PRIMARY FILTERS Corning 5840 and Corning 5113 mounted on holders

SECONDARY FILTERS Corning 4308, Corning 3486 and Corning 3385 mounted

on holders

DETECTOR Highly sensitive wide range Photodiode / Photocell

SAMPLE TEST TUBES 15 mm (D) x 80 mm (H)

MINIMUM SAMPLE 4 ml

POWER 230 V  $\pm$  10% AC, 50 Hz. WEIGHT 4.5 Kg (approximately) DIMENSIONS 260 x 335 x 160mm (LxBxH)



#### SALIENT FEATURES

- ✓ 3 Digit Seven Segment LED Display
- ✓ Covers Entire Visible Range
- Determines the Concentration of
- ✓ Fluorophores & Quinine

#### STANDARD ACCESSORIES

Test Tubes Set Of 5

Dust Cover 1 No.

Instruction Manual 1 No.

Primary & Secondary Set of 5 Filters









D. O METER



D.0

Range 0 To 20 PPM Resolution 0.1 PPM

Temperature Comp. Automatic With Pt 100 Probe & Manual With Keys

Pressure Adjustment 0 To 999 Mm Of Hg Manual Salinity Correction 0 To 20 Gm/1 (manual)

 $\begin{array}{ll} \text{Calibration} & \text{Automatic} \\ \text{Accuracy} & \pm 2 \ \% \ + \ 1 \ \text{Digit} \ 1 \\ \end{array}$ 

Temperature

Range -20.0 To +200 °c

 $\begin{array}{lll} \mbox{Resolution} & 0.1 \ ^{\rm o}{\rm c} \\ \mbox{Accuracy} & \pm 0.2 \ \% \\ \mbox{Input Type} & \mbox{Pt 100} \\ \mbox{Calibration} & \mbox{Manual} \\ \end{array}$ 



Display

Display 16 x 2 LCD
Display Format Temp & DO Simultaneously
Setting By Soft Touch Keys
Storage 1000 Samples With Date &time

Interface U

Real Time Display 24 Hour Mode With Date Power Supply 230 V  $\pm$ 10% Ac 50 Hz

Digital Output USB

Print Format All Data Date Wise



## 18/27 DIGITAL

D.O METERS

#### **TECHNICAL SPECIFICATIONS**

#### DIGITAL D.O METER

Range 0 to 20.0 ppm
Temperature 0 to 100 (in Model LT-27)

 $\begin{array}{lll} \mbox{Resolution} & \mbox{0.1 ppm} \\ \mbox{Accuracy} & \mbox{0.1 ppm} \pm 1 \mbox{count} \\ \mbox{Temp. Compensation} & \mbox{0}^{\circ} \mbox{C} \mbox{ to } 50^{\circ} \mbox{C} \mbox{ Manual} \\ \end{array}$ 

Compensation ± 3 %

D.O. Sensor Amperometric Gold/Silver membrane type.

#### GENERAL

Display 3½ digit LED display Power 230V A.C 50 HZ Weight 2 Kg

#### STANDARD ACCESSORIES

D O Probe 1 No. Instruction Manual 1 No. D.O Membranes 1 Set.

Temperature Probe 1 No. (in Model LT-27)



- ✓ Highly Stable & Accurate
- √ 3½ Digit LED Display
- ✓ Rugged & Economical
- ✓ Compact Design













# 59/60/61/62 WATER & SOIL ANALYSIS KITS

#### **PARAMETERS**



	59	60	61	62	64
рН	✓	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Cond.	✓	✓	✓	✓	✓
TDS	✓	✓	<b>✓</b>	✓	<b>✓</b>
DO	✓	✓	✓		✓
mV (ORP)	✓		✓	✓	
Salinity	✓	✓	✓		✓
Turbidity		✓			✓
Colorimeter					✓
Temp.	<b>✓</b>	✓	✓	✓	<b>✓</b>





















Model	LT-59	LT-60	LT-61	LT 60	IT GA
<b>Model</b> Product	μP Water & Soil Analysis Kit		Water & Soil Analysis Kit	LT-62 Water & Soil Analysis Kit	LT-64 Water & Soil Analysis Ki
Display	16 x 2 Characters LCD Displ	ay	3½Digit LCD	3½Digit LCD	3½ Digit LCD
pH	0 to 14 oll	04-44-11	0 to 14 oll	0 to 4.4 all	04-44-11
Range	0 to 14 pH	0 to 14 pH	0 to 14 pH	0 to 14 pH	0 to 14 pH
Resolution	0.01pH	0.01pH	0.01pH	0.01pH	0.01pH
Accuracy	0.01± 1 Digit	0.01± 1 Digit	0.01± 1 Digit	0.01± 1 Digit	0.01± 1 Digit
Temp. Comp.	0 to 100°C(Auto/Manual)	0 to 100°C (Manual)	0 to 100°C (Manual)	0 to 100°C (Manual)	0 to 100°C (Manual)
Conductivity (E C)		100000000000000000000000000000000000000	50000000000000000000000000000000000000	12 (14 (14 (14 (14 (14 (14 (14 (14 (14 (14	- VI
Range	0-20, 0-200µS	0-200μS	0-20mS	0-20mS	0-20mS
	0-2, 0-20, 0-200mS	0-2, 0-20, 0-200mS		Standard or a second or a seco	NATIONAL PROPERTY.
Resolution	$0.01\mu\mathrm{S/cm}$	0.1μS	$0.1\mu$ S	$0.01 \text{mS} (10 \mu \text{S})$	0.01mS (10µS)
Range Selection	Automatic	Manual			
Accuracy	±0.5% FS±1 Digit	±0.5% FS± 1 Digit	±0.5% FS± 1 Digit	±0.5% FS± 1 Digit	±0.5% FS± 1 Digit
Cell Constant	Adjustable (0.05 to 10.5)	Adjustable (0.4 to 1.5)	Pre-Adjusted	Pre-Adjusted	Pre-Adjusted
Temp. Coefficient	Adjustable (0.4 to 4.0)	2%	2%	2%	2%
Temp. Comp.	5-50° (Auto/Manual)	Adjustable from table	Adjustable from Table	Adjustable from Table	Adjustable from Table
Reference Temp.	Selectable (5-50°C)	25°C	25°C	25°C	25°C
Temperature					
Range	0-100°C	0-100°C	0-100°C	0-100°C	0-100°C
Resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Accuracy	±0.1°C± 1 Digit	±0.1°C ± 1 Digit	±0.1°C ±1 Digit	± 0.1°C± 1 Digit	± 0.1°C±1 Digit
Sensor	Semi Conductor Type	Semi Conductor Type	Semi Conductor Type	Semi Conductor Type	Semi Conductor Type
TDS	Com Conductor Typo	Commic Conduction Type	Comi Conductor Typo	Comi Conductor Type	Comi Conductor Typo
Range	0-20, 0-200ppm	0-20, 0-200ppm	0-20 ppt	0-20 ppt	0-20 ppt
riango	0-2, 0-20, 0-200 ppt.	0-2, 0-20, 0-200 ppt.	о 20 ррг	0 20 ppt	o zo ppt
Range Selection	Automatic	Manual			
Resolution	0.01 ppm	0.1 ppm	0.01ppt	0.01ppt	0.01ppt
Accuracy	±0.5% FS±1 Digit	±0.5% FS ±1 Digit	±0.5% FS ±1 Digit	± 0.5% FS ±1 Digit	± 0.5% FS ±1 Digit
Cell Constant	Adjustable (0.5 to 10.5)	0.4 to 1.5 on display	Pre-Adjusted	Pre-Adjusted	Pre-Adjusted
DO	Aujustable (0.5 to 10.5)	0.4 to 1.5 off display	F16-Aujusteu	FTE-Adjusted	rie-Aujusteu
Range	0-20 ppm	0-20 ppm	0-20 ppm		0-20 ppm
Resolution	0.1 ppm	0.1 ppm	0.1 ppm		0.1 ppm
Accuracy	0.1 ppm ±1Digit	0.1 ppm ±1Digit	0.5 ppm ±1Digit		0.1 ppm ±1Digit
Temp. Comp.	Auto/Manual (5°C to 55°C)	Manual (5 C to 55 C)	Manual (5°C to 55°C)	: D - L -	Manual (5°C to 55°C)
Do Sensor	Gold/Silver Probe	Gold/Silver Amperometric F	Probe Gold/Silver Amperometr	ric Probe	
mV (ORP)		0			0. 4000 1/
Range	0 to ± 1999.9 mV	0 to ± 1999 mV		_	0 to ± 1999 mV
Resolution	0.1 mV	1 mV		_	1 mV
Accuracy	$\pm$ 0.1 mV $\pm$ 1 Digit	± 0.1 mV ±1 Digit		_	± 0.1 mV± 1 Digit
Turbidity					
Range	_	0-1000 JTU			0-1000 JTU
Resolution	_	1 JTU			1 JTU
Accuracy		± 3% FS ± 1 Digit			± 3% FS ± 1 Digit
Sample System		30mm Clear Glass Tube			30mm Clear Glass Tube
Salinity					
Range	0-20,0-200ppm,0-2,0-20,05	5ppt 0 - 50 ppt	0 - 50 ppt	0 - 50 ppt	
Resolution	0.01 ppm	0.1 ppt	0.1 ppt	0.1 ppt	0.1 ppt
Accuracy	±1% of Range ± 1 Digit	± 0.5% FS ± 1 Digit	±0.5% FS ±1 Digit	±0.5% FS ±1 Digit	±0.5% FS ±1 Digit
Colorimeter					0.00-1.99 ABS 9 Filters
Power Supply	6V Rechargeable Battery	1.5Vx6Dry Cells	1.5Vx6Dry Cells	1.5Vx6Dry Cells	1.5Vx6Dry Cells
	or 230V±10%AC, 50Hz	or 23V±10%AC < 50Hz	or 23V±10%AC < 50Hz	or 23V±10%AC < 50Hz	or 23V±10%AC < 50Hz
	OL ZOUVITTU/MAG. DUFIZ				
Storage		01 2012 10 1010 10 1012			
Storage Standard Accessories	1000 sample		Probe, Dry Cell container Mair	Lead. Operation Manual Ro	ttles for pH Solution & nH







## 14/17/19/28 PORTABLE INSTRUMENTS

#### **SPECIFICATIONS**

MODEL NO.	LT - 14	LT - 17	LT - 19	LT - 28
RANGE	0 - 14 pH	0-1999 μS, 0-19.99 mS	0-1999 ppm, 0-19.99 ppt	0 – 19.9 ppm
RESOLUTION	0.01 pH	1 μS	1 ppm	0.1 ppm
IMPEDANCE	>10 <sup>12</sup> ohms	<u>a</u> :	av av	2
SENSOR	Combination pH Electrode	Cond. Cell (Dip type)	TDS Cell (Dip type)	Amperometric DO Probe
BATTERY	9V DC	9V DC	9V DC	9V DC
ACCURACY	0.01pH	±1% FS	±1% FS	±2% FS
TEMP. COMP.	0 - 100°C (Manual)	-	•	5 to 55°C
DISPLAY	3½ digit LCD	3½ digit LCD	3½ digit LCD	3½ digit LCD
SIZE	180 x 85 x 30 mm	180 x 85 x 30 mm	180 x 85 x 30 mm	180 x 85 x 30 mm
WEIGHT	250 gm. (Approx)	250 gm. (Approx.)	250 gm. (Approx.)	250 gm. (Approx.)
		-L		

























## 1201 BIO-CHEMISTRY

**ANALYZER** 



#### **TECHNICAL SPECIFICATIONS**

Test Method End Point With Standard/Factor Two Point Kinetics (Fixed

Time) Multipoint Kinetics Multi standard up to 8 standards Biochromatic, Dual Wavelength Absorbance

Coagulation

Optical System Principle: Photometric Analysis with Interference Filter

Absorbance Range: 0.0000-3.0000 (Linearity: ±1%, Repeatability: 0.001, Resolution: 0.0001) Spectral Range Selection: Automatic Via Filter Wheel Wavelengths: 340, 405, 450, 505, 546, 578, 630 nm + 2 Free Positions, ±2 CML Precision Light Source: 6 V 10 W Long Life

tungsten Halogen Lamp

Detector Photodiode

Thermal System Peltier Regulated 25°C, 30°C, 37°C & Room Temperature

Accuracy ± 0.3°C

Cuvettes Flow Cell: Quartz 32  $\mu$ l Path Length: 10 mm Removable

Cuvette (Square and round)

Printer Inbuilt Thermal Printer (57mm)

Display & Input System 7.0 inch color touch screen External Keyboard, Mouse

tacility

Suction System Pressure Auto releasing Peristalic Pump Suction Volume:

300  $\mu \rm l$  to 3.0 ml Air Column facility after each sample to

avoid carry over.

Test Parameter, Storage & CPU Test Parameters: Up to 300 2,00,000 test results with

editable patient information Storage of Quality Control

and standard results

DDR2 SD RAM 1 G bit Flash: 256 MB ARM Cortex A8, 720 Mhz
Quality Control Lew-Jennings Chart Using Westgard's Rule Auto

Drawing of QC figures

Operating Conditions Temperature: 10°C~37°C Relative Humidity: <85%

Power Requirement Voltage: 100-240 V AC (Auto Adaption)

Frequency 50/60 HZ External Power Adaptor: 19 V 4.7 Amp

Dimensions 400X300X160 (L x W x H)

Weight 6 Kg

#### **SALIENT FEATURES**

- ✓ Highly Stable and accurate
- ✓ Absorbance Range upto 3.000
- Range Selection Automatic Via Filter Wheel
- ✓ Inbuilt Thermal Printer
- ✓ Up to 300 test parameters
- ✓ Storage of 2,00,000 test results with patient information

#### STANDARD ACCESSORIES

Printer Paper Roll Removable Cuvette

Optical Mouse

External Key Board

AC Adapter









## 1290 AUTOMATIC

HEMATOLOGY ANALYZER

#### **TECHNICAL SPECIFICATIONS**

Principle Impedance for cell counting Cyanide-free method for HGB

Parameters WBC, Neu#, Lym#, Mid#, Neu%,Lym%, Mid%, RBC,

HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT,

MPV, PDW, PCT, P-LCR

Histograms WBC, RBC, PLT histogram

Languages English, Spanish, Italian, Portuguese, etc.

Calibration Manual and Auto-calibration
Quality control 3 level QC, LJ graph

Sample volume Venous mode:  $10\mu L$  venous blood Capillary mode:  $10\mu L$ 

capillary blood Prediluted mode: 20µL capillary blood

Display 8-inch colour touch screen Liquid Crystal Display (LCD)

Resolution 800 600

Storage 100,000 sample results with histograms
Reagent Lyse (500mL) and Diluent(20L)
Printout Thermal printer, support external printer

Temperature 18-35°C

Power AC 100-240V,  $50/60\pm1$ Hz Dimension 410mm×435mm×472mm



#### SALIENT FEATURES

- √ Throughput: 35T/H 8-inch touch screen 20 parameters + 3 histograms
- ✓ Sample volume: 10 µL
- Reagents only
- Counting modes
- √ 100,000 sample results
- Support LIS and external printer
- CE marked

#### **MEASUREMENT RANGE**

Parameters Measurement range

WBC (0-99.9×109)/L RBC (0-9.99×1012)/L HGB (0-300.0)g/L PLT (0-999×109)/L **PERFORMANCE** 

PARAMETERS PRECISION (CV)

WBC = 2.0% (7.0 -15.0×109) L RBC = 1.9% (3.5 - 6.0×1012) L

HGB = 1.9% (110.0 - 180.0g) L MCV = 0.4% (80.0 - 110.0) fL

LT = 4.0% (100.0 -  $500.0 \times 109$ )/L





WARRANT

YEAR

## 1260 MICROPLATE

ELISA READER

#### **TECHNICAL SPECIFICATIONS**

Light Source 6V, 10W tungsten halogen lamp, it can

work over 5000 hours

Wavelength Range 400 -750 nm

Optical Filters 4 Standard filters: 405, 450, 492, 630 nm, maximum 8 filters

Measurement Methods Single wavelength, dual wavelength, two points method, dynamic assay,

multiple wavelengths

Blank Ways Single well blank, multiple wells blank,

rows and columns blank

Calculation Method Absorbance, single point calibration,

linear regression, quadratic curve, four

parameters equation

Measurement Speed Single wavelength < 3 seconds/96

wells, dual wavelength < 9

seconds/96 wells

Measurement Range 0.0000-4.5000Abs

Resolution 0.0001A



Linearity Repeatability Difference

Rows and Columns Difference

Display

Display

Save Information

Environment

calibration curve on More than 300 test programs, results

< 0.01 A

± 05% or < 0.025 A

< 0.1% or ± 0.0025A

of 50 pieces of 96 well, 100000 test

Built-in XP system, 8" touch-screen,

shows whole microplate results and

results

Interface 4 USB two-way communication

interface, 1 RS232, 1 VGA, 1Keyboard connector, 1 mouse connector

Power supply 12V DC (100V-240V wide input voltage range) temperature:

NARRANT

YEAR

5°-40°C

External Dimension 52.5cm(20.7 in) x 42.0cm(16.5 in) x

26.0cm(10.20 in)

Net Weight 9 kg.



## 1261 WICROPLATE

ELISA WASHER

#### **TECHNICAL SPECIFICATIONS**

Plate 48/96 well and trips (U,V, Flat bottom)

Residual Volume ≤2

Dispensing volume Adjustable from 50 to 900  $\mu$ l

Wash cycles 1-16 optional

Mode of wash From 1 to 12, row and rank, selectable Soak time Up to 990 seconds adjustable Shake time Up to 990 seconds adjustable

Large LCD

Channel 3 channels for washing liquid, 1 channel for waste liquid

Up to 100 programs can be stored

Rs232

Dimension 450(L)nnmx310(W)mmx170 (H)mm

7.

Power Supply AC220V±10%, 50/60Hz; AC110V±10%, 50/60Hz

#### **SALIENT FEATURES**

- ✓ Large LCD display, intelligent software, easy to operate
- Strong washing function, bottom washing and two positions aspiration make completed washing effect
- √ 8-channel or 12 channel optional
- Needle positions adjustable and up to 10 different needle positions presettable Pressure, volume & time adjustable, washing times, soap time pre-settable Pressure, volume & time adjustable, washing times, soap time pre-settable, whole plate or single strip reading
- Needle positions adjustable and up to 10 different needle positions presettable 5 position of needles are adjustable, fit for multi-kind of plates
- ✓ Self calibration and trouble alarm function
- ✓ Large memory to store up to 100 program





Display

Memory

Interface

Net Weigh









## 1240 URINE **ANALYZER**



#### **TECHNICAL SPECIFICATIONS**

High-luminance and white LED, features in long life and good stability. Large LCD screen, high luminance, abundant contents display. User-friendly interface.

Optional units: International unit, conventional unit and symbol system. Three working mode: One-step/slow/fast testing mode,

Suitable for different user group.

Monitoring the whole test process, auto-character and audible prompt. Be compatible with 8, 10 and 11-parameter test strip. Standard RS232 interface and interface for data communication.

Built-in thermal printer.





### 1232 COAGULATION **ANALYZER**

#### **TECHNICAL SPECIFICATIONS**

Testing channels Cuvette incubation positions 24 Reagent incubation positions 6

Wavelength LED 470nm Plasma Sample type

Memory 10,000 results storage

Sample volume 20-40µL 20-40µL Reagent volume

Electronic pipette 20-200µL Clotting factors are able to expressed in the

form of time(Seconds), ratio, g/L Support LIS

Incubation temperature 37.0±1.0°C ≤85% Relative humidity Deviation between channels ≤5%

Power supply AC 100-240V 50/60Hz Size 375mm x 335mm x 175mm

Net weight 5.2 Kg.



- √ 5-inch touch screen and keypad 4 independent channels Parameters: PT, APTT, TT, FIB, etc.
- ✓ Principle: Clotting, optical method
- Micro volumes
- Disposable cuvette no carry-over
- Precise electronic pipette Languages: English, French, Spanish, Portuguese, etc.
- Automatic start at reagent addition
- Thermal printer, auto & manual print







