For clinical laboratory’s routine, stat, neonatal, specific analysis or back-up unit.

**BASIC, COMPACT BIOCHEMICAL ANALYZER**

BASIC semi-automatic analyzer is designed to assist all size of medical or hospital emergency/neonatal units, in obtaining rapid results on biochemical analysis of substrates, enzymes,...

- Quick and clean automated liquid handling thanks to the infra-red sample detector, peristaltic pump and micro flow-through cell.
- One key button direct access to the preprogrammed method.
- Calculation modes ranging from the simplest reading (Absorbance and concentration, End Point with standard/factor or Multi-calibration mode) to the more complex (Enzyme/Two Point kinetics and Bichromatism).
HIGH TECHNOLOGY
Diode-array Silicon detector offering optimum productivity through its:
- Totaly static system
- Automatic wavelength reading
- Unmatched wavelength reproductibility
- Performances longevity
Thermostated Peltier cell-holder invaluable for developing kinetics reactions.
Large LCD Graphic display for comfort in observing kinetic curve evolution.

USER FRIENDLY
- Easy to follow Operating procedures by pictograms/choice of languages.
- Comprehensive Data report video display, hardcopy or on PC. A universally Open system:
- Parameters modifications for various brands of reagents can be done directly or through PC.

POWER
- Fast spectral data acquisition to meet time-saving requirement.
- Multi-standard curve and bichromatic reading calculation feature measuring flexibility.
- Automatic registration of results, graphs, Data reporting and Quality Control.
- Patient Report: Selection of tests made per patient.

SAFETY
- Automatic diagnostic of its functions upon start-up.
- Validation of Performance in accordance with GLP requirements.
- Quality Control Assurance with flags and daily/periodic management.
- Equiped with a back-up battery allowing complete reading on the development of kinetical reaction till the end.

ANALYSIS METHODS
Substrates
Albumine, Alcool, Ammonia, Anti-Thrombin, Bicarbonate, Bilirubin, Calcium, Chloride, Cholesterol, HDL/LDL
Cholesterol, Creatinine, Glucose, Iron, Magnesium, RBC Magnesium, Phospholipids, Phosphorus, Total Proteins, Triglycerides, Urea, Uric Acid, ...

Enzymes
Acid/Alkaline Phosphatase, Amylase, APO-A1, APO-B100, AST/GOT, CK/NAC, Gamma GT, LDH, Lipase, Nucleotidase, ...

Infrared sensor for automatic sample aspiration and increased productivity
Free choice to use the 30 µl flow-through cell or the disposable plastic/glass cell with cell-by-cell operation
Rapid access to the automatic sampling peristaltic pump located on the rear side of the BASIC
## TECHNICAL SPECIFICATIONS

### Optical system
- **Spectrophotometer wavelength range**: 340-700 nm
- **Detector**: Silicium photodiode array 340-380-405-492-510-546-578-623 nm
- **Bandpass**: 10 nm
- **Wavelength accuracy**: +/- 2 nm
- **Wavelength repeatability**: +/- 0.2 nm
- **Reading range**: -0.200 to 2.500 Abs
- **Source**: Pulsed Quartz-halogen lamp 6V/10W
- **Straylight**: <0.5% at 340 nm
- **Photometric linearity**: 1% from 0 to 2A
- **Photometric accuracy**: 0.001Abs at 1A, 0.005 Abs at 2A
- **Drift**: < 0.006A/h
- **Noise level**: < 0.001 at 0 A, < 0.005 at 2 A

### Storage capacity
- 94 open analysis, 1000 results

### Analysis modes
- **Absorbance/Concentration**
- **End-Point** with/without sample/reagent blank, with/without standard or factor
- **Multi-calibration mode**
- **Enzyme kinetic** with/without sample blank
- **Two-Point kinetic** with/without sample blank
- **Bichromatism**

### Cuvette
- **Flow-through cuvette** 30μl
- Accepts also plastic or glass cuvettes

### Temperature control
- **By Peltier effect**
- **Ambiant-25-30-37°C (+/- 1°C in accuracy, +/- 0.3°C in repeatability)**

### Data display
- **40 x 60 mm** LCD graphic video

### Data archiving
- **Memory**
- **Printer**
- **PC computer**

### Interface
- **RS232C serial**
- **Centronics Parallel**

### Power requirement
- **110-230 VAC**
- **50/60 Hz Max 50 VA**

### Dimensions
- **425 x 230 x 270 mm** (W x D x H)

### Weight
- **12 Kg**

## ORDERING INFORMATION
- **70VB0358**: Biochemical analyzer BASIC