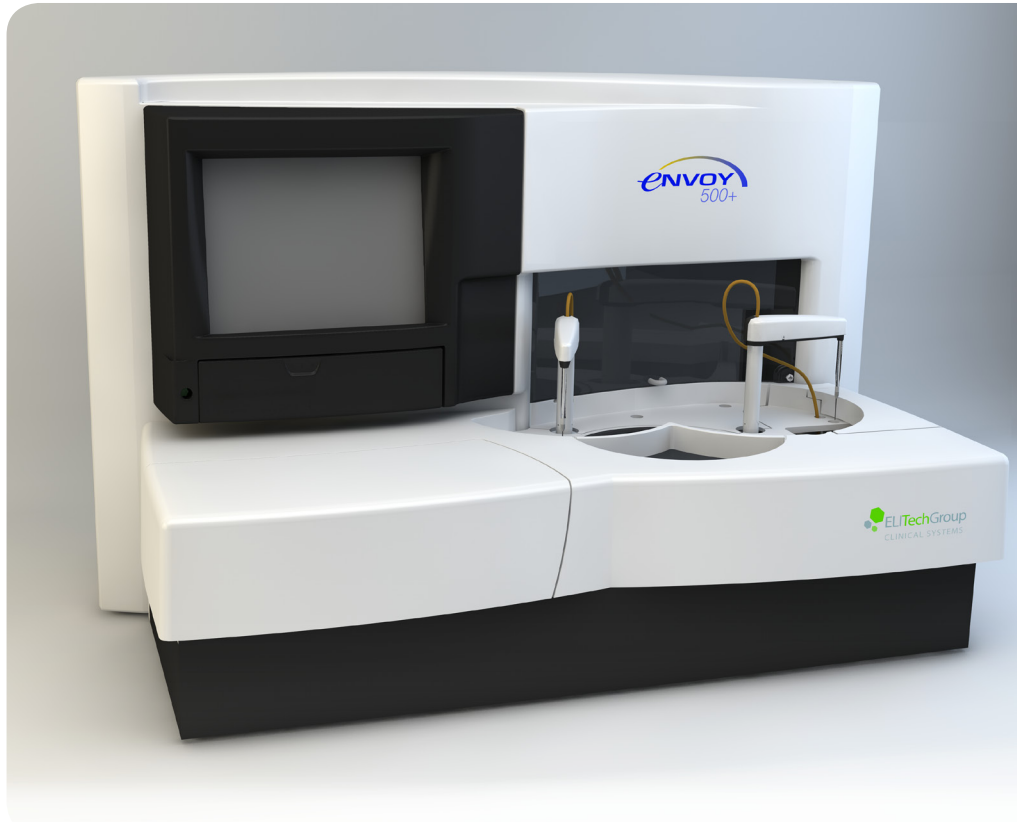


# ENVOY 500+

## Clinical Chemistry System



*Nothing faster in benchtop chemistry*

*Delivering Trouble Free Results  
Laboratories Can Trust*

## The Most Productive and Responsive Benchtop Chemistry System

The Envoy 500+\* is designed to deliver the performance of a floor standing chemistry system but with the cost efficiency and size of a benchtop system. With the Envoy 500+ the laboratory will receive test results faster than other benchtop systems. This is a fully automated platform with performance and quality designed into the complete system across all key components: hardware/software, reagents, calibrators, controls, ISE and service. The dedicated line of ready-to-use assays are tied to proven methodologies, referenced and traceable to industry standards for assured quality and laboratory peace of mind. The Envoy 500+ requires minimal maintenance and is a complete solution for routine testing in a small to medium sized laboratory.

### Touch Screen

- Built-in LCD touch screen provides ease of use without the need for an external PC

### Large Capacity Reagent Rotor

- Holds up to 40 reagent sets (mono or dual) to maximize walk-away time



### Clot and Liquid Sensor Detection

- Prevents reporting of invalid results from insufficient and difficult samples
- Reduces potential repeats

### Refrigerated Reagent Rotor

- Onboard refrigeration and storage ensures reagent stability and increases results reliability

### Proven Quality and Reliability

- Complimentary peer QC program (VQC)\*\*
- Remote access capability for real-time support

### Ion Selective Electrode (ISE) Module

- Fully integrated with up to 4 parameters available. Complete test panel without adding any enzymatic procedures
- Dry ISE electrodes do not need to be continuously primed, reducing reagent consumption

## Global Service Support

ELITechGroup uses its 50 years of knowledge and expertise to ensure that you get the service you need. With a global coverage of over 200 distributors you can be assured of first class local support backed with our central support team.

\* The Envoy trademark is registered in the U.S Patent and Trademark Office

\*\* Check availability in your region

## Test Menu

### SUBSTRATES

- ALBUMIN
- DIRECT BILIRUBIN
- TOTAL BILIRUBIN
- CHOLESTEROL
- CREATININE
- GLUCOSE
- HDL CHOLESTEROL
- LDL CHOLESTEROL
- TOTAL PROTEIN
- TRIGLYCERIDES
- UREA
- URIC ACID

ELITechGroup Clinical Systems provides a dedicated line of ready-to-use assays for its Envoy 500+.

Quality reagents, with Internal Barcode Reader and related Calibrators and Controls, will give Clinical laboratories confidence with final results reliability.

**Optimized ElitechGroup applications for CE and 510(k) cleared reagents are pre-loaded.**

### ENZYMES

- ALP
- ALT
- AMYLASE
- AST
- CK-MB
- CK
- GGT
- LDH



### ELECTROLYTES

- CALCIUM
- IRON
- MAGNESIUM
- PHOSPHORUS

### ISE

- SODIUM
- POTASSIUM
- CHLORIDE



### CALIBRATORS & CONTROLS

- ELICAL 2 MULTIPARAMETRIC CALIBRATOR
- HDL CHOLESTEROL CALIBRATOR
- LDL CHOLESTEROL CALIBRATOR
- ISE CALIBRATOR ENVOY
- ELITROL I MULTIPARAMETRIC CONTROL
- ELITROL II MULTIPARAMETRIC CONTROL
- CK-MB CONTROL

Available  
soon

- LIPASE
- GLUCOSE HEXOKINASE
- WIDE RANGE CRP
- MICROALBUMIN
- HbA1c

## Specifications

### THROUGHPUT

- Typically 300 tests/hour
- Up to 190 ISE tests/hour

### OPERATIVE AND TEST MODE

- Random access
- Routine, batch, STAT and profiles

### ASSAY TYPE

- Clinical chemistry, turbidimetry and ISE

### REAGENT SYSTEM

- Integrated reagent barcode reader
- Refrigerated reagent rotor controlled with peltier elements
- Cooled to between 5°C - 15°C (normal laboratory conditions)
- One rotor with 80 positions (holds up to 40 dual reagent sets)
- Test directory for up to 500 tests
- Reagent level sensing

### SAMPLE SYSTEM

- Sample rotor containing 52 barcode readable positions
- 26 positions for calibrators and controls
- Stat functionality
- Continuous loading
- Primary tubes (13 or 16 mm OD)
- Sample positions can contain 5 ml or 10 ml primary tubes or sample cups
- Sample level sensing and clot detection

### PIPETTING SYSTEM

- Long life ceramic dilutor
- Reagent volume 1 µl - 470 µl
- Sample volume 1 µl - 100 µl

### CUVETTE ROTOR

- 34 permanent optical glass cuvettes
- Reaction volume 300 µl - 700 µl
- Measuring temperature 30, 32, and 37°C, controlled by Peltier elements (+/- 0.2°C)
- Optical path of 7 mm

### DRY ISE MODULE

- Solid state electrode technology
- Indirect measurement
- Dilution 1:14
- Measures Sodium, Potassium, Chloride and CO<sub>2</sub>\*\*\*

### LIGHT SOURCE

- Tungsten halogen lamp with dichroic reflector

### WAVELENGTH RANGE

- 10 wavelengths 340, 380, 405, 436, 480, 510, 546, 578, 630, 700 nm standard installed
- Automatic wavelength selection

### PHOTOMETRIC PRECISION AND RESOLUTION

- +/- 1% (0-2 OD), +/- 2.5% (2-3 OD)
- Resolution +/- 0.001 Abs

### QUALITY CONTROL

- Up to 6 programmed controls per test (3 known, 3 unknown)
- Westgard rules
- Levey-Jennings plots

### WATER CONSUMPTION

- Up to 2.4 liters/hr

### STANDARDS AND REGULATIONS

- CE-IVD

### INTEGRATED PC

- MS Windows XP
- Touchscreen navigation

### INTERFACE

- RS232, bidirectional through LIS protocol
- LAN
- USB
- VGA

### SOFTWARE LANGUAGE

- English, French, German, Italian, Polish, Portuguese and Spanish

### DIMENSIONS AND WEIGHT (BENCHTOP)

- 100 x 68 x 58 cm (W x H x D)
- 95 kg

### ENVIRONMENTAL CONDITIONS

- Temperature 18 - 32°C
- Relative humidity 10 - 90%, non-condensing
- Altitude up to 2 000 m
- Plumbing – no dedicated water system or drain required
- Voltage 100 – 240 Vac
- Frequency 50 - 60 Hz
- Power 590 Watts

\*\*\*CO<sub>2</sub> ISE is only available for the US market

The content of this document is subject to change without prior notification

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