

envoy[®] 500+



VITAL[®]
DIAGNOSTICS
An ELITech Group company

Providing Vital Solutions for Your Laboratory™

Test Menu

General Chemistry Assays

Albumin
Bilirubin, Direct
Bilirubin, Total
Calcium
Creatinine
Glucose
Iron, Total
Magnesium
Phosphorus
Protein, Total
Urea Nitrogen (BUN)
Uric Acid

Enzyme Assays

Alanine AminoTransferase
Alkaline Phosphatase
Amylase
Aspartate Transaminase
Creatine Phosphokinase
Gamma Glutamyl Transferase
Lactate Dehydrogenase

Special Chemistry Assays

Hemoglobin A1c

Lipids Assays

Direct LDL
Triglycerides
Direct HDL
Cholesterol

Electrolyte Assays

Carbon Dioxide
Chloride
Potassium
Sodium

Special Chemistries

Apolipoprotein A1*
Apolipoprotein B*
CRP Wide Range*
CRP High Sensitivity*
Cystatin C*
Digoxin*
Ferritin*
Fructosamine*
IgA*
IgG*
IgM*
Lipase*
Microalbumin*
Phenobarbital*
Phenytoin*
Tegretol*
Theophylline*
UIBC*
Valproic Acid*

Technical Specifications

Operative method:

Kind:

Assay Methods:

ISE Module:

Test Modes:

Tests on-line:

Programmable tests:

Speed:

Sample rerun and dilution:

Calibration and controls:

Reading:

Sample tray:

Barcode reader:

Sample volume:

Reagent volume:

Dimensions:

Weight:

Computer:

CD rom:

Hard disk:

USB Drives:

Monitor:

Interface:

Printer:

Keyboard and mouse:

Optical system:

Light source:

Filters:

Optical path:

Photometric linearity:

Photometric sensitivity:

Noise:

Kind:

Use:

Working temperature:

Humidity:

Incubation temperature:

Refrigeration temperature:

Voltage:

Power consumption:

Random access

Discrete

Clinical chemistry and immunoturbidimetry

K, Na, Cl, CO₂

routine, batch, STAT, profiles

40 refrigerated reagents (mono or dual)

500 single or double reagent

300 test/h, ISE module 190 test/hour

Automatic

Automatic

Direct reading in 34 optical glass cuvettes

78 positions: 52 samples and STATs, 26 STD and controls.

Primary tubes and/or sample cups

Separate barcode readers for samples and reagents

From 1 to 100 µl

From 1.0 µl to 470 µl

40 x 27 x 23 inches. Vacuum pump - 8 x 8 x 11 inches (W x H x D)

209 lbs. Vacuum pump - 10 lbs.

Industrial MB Pentium >650MHz IBM compatible

> 48x

>10 Gb

8 USB Ports

Color LCD TFT with touch screen

Two serial port RS232C, USB, LAN + VGA

Inkjet, color, IBM compatible

IBM compatible

Static photometric group (Biotechnica patented)

Halogen lamp 12V - 35W

340-380-405-436-480-510-546-578-630-700

7 mm ± 1%

From 0 to 2.0 Abs ± 1%; from 2.5 to 3.0 Abs ± 2%

0.001 Abs

± 0.0005 at 2.000 Abs

Reagent Grade water and surfactant

1 liter/500 tests

From 18 to 32°C

From 10 to 90%

30, 32 and 37°C ± 0.1°C. Accuracy ± 0.2%

5 -15°C (room temperature 25°C)

Universal 110-240 VAC with PFC

590 Watt

*Reagents are available from third party manufacturers. Vital Diagnostics does not manufacture or sell these reagents. Performance claims for these reagents are established by the third party manufacturers.

Why choose the Envoy 500+?

Performance matters.

Faster test results

With the Envoy, you receive test results faster than almost any other bench-top chemistry system on the market, allowing you to make your treatment decisions sooner.

Cost Savings

The Envoy 500+ was designed to deliver the performance of large floor model analyzers but provide the cost efficiency of a bench-top. From reusable glass cuvettes to low maintenance, the Envoy 500+ saves your laboratory money.

Room to grow

No other bench-top chemistry system on the market provides the throughput and flexibility of the Envoy 500+. When your laboratory needs to grow, the Envoy 500+ will be able to handle the new workload.

Support you can count on.

Vital Diagnostics' commitment to providing the best service and support in the industry continues with the Envoy 500+. When you purchase an Envoy 500+ you receive a 1 year warranty which provides you with unlimited technical support and on-site service calls as needed, as well as one preventative maintenance visit.

Newly featured remote diagnostics allows for quick and easy troubleshooting. By remotely controlling and navigating your system, troubleshooting efficiency is increased, reducing downtime and the potential for on-site visits.



Highest quality reagents.

The Envoy 500+ uses its own line of reagents that are manufactured, validated and optimized by Vital Diagnostics. This ensures quality results, maximum performance, and the best overall value. The Envoy 500+ reagents also feature barcoded labels, allowing the Envoy to efficiently identify each reagent.



All the features you need.

Software

Touch Screen

The Envoy 500+ has a built-in LCD touch screen and is driven by the Windows® operating system. This provides greater ease of use and space savings by eliminating a bulky external monitor and CPU.

Quality Control

Quality Control results are stored in memory and are easily displayed on the screen. QC can be evaluated using up to six Westgard rules and graphs can be viewed or printed using either the theoretical or calculated means.

Pre-Programmed Parameters

The Envoy reagent application parameters are pre-loaded into the software, saving you time and eliminating the possibility of data entry mistakes.

Reagent Handling

Large Capacity

The Envoy 500+ holds up to 40 individual Envoy reagents (mono or dual), providing a longer walk-away operation.

Refrigerated Reagent Tray

Onboard refrigeration and storage ensures reagent stability, which increases reliability of results while lowering laboratory costs.

Continuous Inventory Monitoring

Continuous inventory monitoring enables the operator to know the number of tests remaining for each reagent, minimizing waste.

Positive Reagent Identification

The reagent chamber contains an infrared barcode scanner capable of scanning Envoy barcoded reagents, automatically recognizing reagent position and lot expiration intervals.



Sample Handling

Sample Wheel

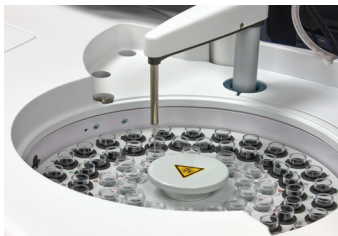
The Envoy 500⁺ sample wheel has 52 positions available for patient samples and 26 for calibrators and controls, providing your laboratory high throughput capability. Primary tubes or sample cups can be used, providing the testing flexibility you need.

Clot and Liquid Sensor Detection

Clot and liquid sensor detection prevents reporting of invalid results from insufficient and difficult samples. This ensures accurate results and proper treatment decisions.

Positive Sample Identification

The sample chamber contains an infrared barcode scanner, capable of scanning your patient barcodes, eliminating the need to manually enter patient information and reducing the risk of sample errors that can cost you time and money.



Dry ISE

Dry Electrodes

The Envoy 500⁺ utilizes a proven dry, solid-state ISE (Ion Selective Electrode) that doesn't need to be kept wet, reducing reagent consumption.

Four Parameters

The ISE system has four electrodes, Na⁺, K⁺, Cl⁻ and CO₂, providing a complete test panel without adding an enzymatic procedure or using a traditional 'wet' electrode. This significantly reduces costs and maintenance time, while increasing reliability of results.



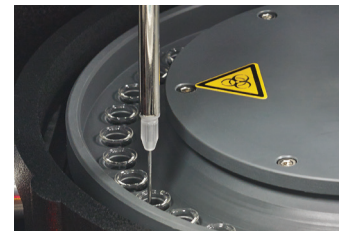
Reaction Cuvettes

Glass Cuvettes

The Envoy 500⁺ contains 34 reusable glass cuvettes that are automatically washed on board, which eliminates the cost of expensive disposable cuvettes.

Increased Walk-away Time

The reusable glass cuvettes also provide your lab longer walk-away time than a system using disposable cuvettes, which requires you to return to the instrument to reload cuvettes on a regular basis.





**For more information about the Envoy 500+, contact your distributor or
call Vital Diagnostics Customer Service at 1-800-345-2822.**

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