

Technical Characteristics and Specifications

SYSTEM DESCRIPTION

Open, random access, counter-top instrument for chemical and immunoturbidimetric clinical analysis

METHODOLOGIES

Kinetic, fixed time, end point, bichromatic, differential, unlimited different methods can be programmed

OPERATIVE MODE

Profile, batch, selective, STAT

THROUGHPUT

Up to 138 tests/hr

SAMPLE LOADING

Continuous loading on 4 separate racks, 8 positions each. STAT samples can be placed at any time in any of the 4 racks and be run immediately

SAMPLE CONTAINERS

Primary tubes diameter from 8 to 16 mm; height up to 100 mm. Cups from 1 ml to 3 ml

SAMPLING

Sample volume: 2.0 to 99 microliters (1 μ increments)

Reagent volume: 3.0 to 548 microliters (1 μ increments)

Capacitive level sensor

Reagent preheating to 37°C

Automatic sample probe washing (internal and external)

Probe wash cycle is operator programmable

REAGENTS

24 positions available for reagent containers

STANDARDS AND CONTROLS

Up to 12 positions

MINIMUM REACTION VOLUME

200 microliters

READING CUVETTES

120 semi - disposable, optic grade cuvettes divided among 6 racks (20 each)

REACTION TEMPERATURE

Air bath at 37°C \pm 0.2

OPTIC MODULE

- double beam
- up to 9 interferential filters + 1 position available for an optional filter
- narrow band filters 340, 380, 405, 492, 510, 546, 578, 620, 690 (optional)
- FWHM: 10nm \pm 2nm
- 6V - 10W halogen bulb
- optic path length: 6 mm
- resolution: 0,0005 Abs
- linearity: up to 4,100 Abs

COMPUTER & SOFTWARE SPECIFICATIONS

Minimum specs:

- Pentium III, 500 MHz
- RAM Memory: 256 Mb
- Hard disk: 20 Gb
- Monitor: SVGA 15" color
- Printer: Ink Jet
- Communication: RS232, USB 1.1/2.0
- Operative System: Windows platform

OPTIONAL ACCESSORIES

- Bar code reader (reagents and samples)

POWER REQUIREMENTS

- 90 - 250 VAC
- 47/63 Hz
- 300 W

WATER CONSUMPTION

About 3 ml/test

DIMENSIONS & WEIGHT

- Height: 53 cm
- Width: 57 cm
- Length: 75 cm
- Weight: 35 kg

OPERATING ENVIRONMENT REQUIREMENTS

Room temperature: 18 to 32°C

Relative humidity: 20 to 85%



Instruments Factory, Sales & Customer Service:

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ELLIPSE

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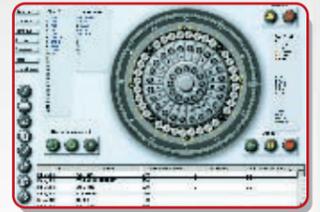
Little... yet Big

The Ellipse is a random access, counter - top instrument for performing chemical and immunoturbidimetric clinical analysis. It is totally automatic and open. Its compact dimensions and state-of-the-art technology make it reliable and flexible, able to meet the needs of even the most demanding small and medium - sized clinical analysis laboratory.

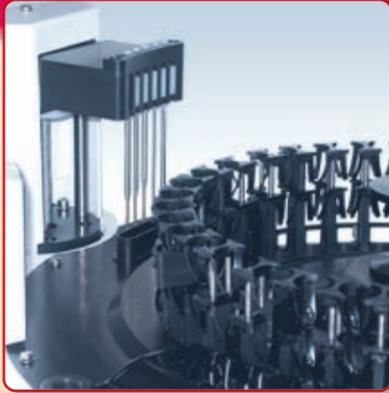
Intelligent

Running under Windows platform, the Ellipse software manages, among others, the following functions:

- unlimited work list
- STAT programming
- historical patient database
- quality control
- visualization and print-out of graphs (Levey - Jennings)
- methods programming (open system)
- management of unwanted sequences
- database for reagents, standards and controls
- sample predilution: from 1/2 to 1/100
- automatic post-concentration of the sample (if required) from 2.0X to 15.0X
- automatic rerunning of out-of-range results with serial dilution
- multipoint calibration curves and relative graphs
- bidirectional interface with host computer - ASTM standard
- auto-diagnosis program

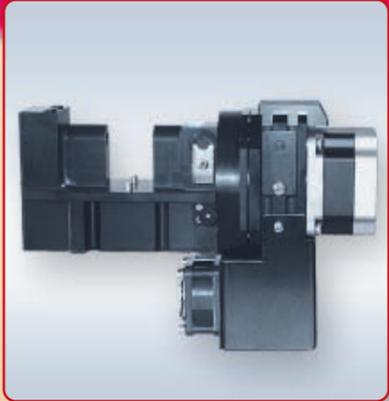


Economical



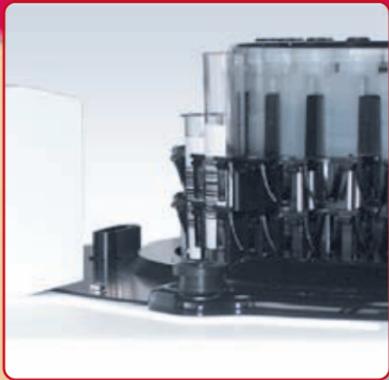
The Ellipse washes and dries each reaction cuvette and individually checks them before their reuse in a successive analysis cycle. The reduced size of the reaction cuvettes (optic path length 6 mm) makes it possible to minimize the reaction volume to a mere 200 microliters/test.

Accurate



The accuracy and precision of the instrument readings are guaranteed by Ellipse's high quality, double beamed optic system equipped with narrow band, automatically positioning interferential filters (up to 9 different wavelengths)

Modern



The (optional) bar code reader allows Ellipse to automatically recognize samples and reagents, and makes it possible for even highly automated clinical analysis laboratories to easily adapt this instrument to their daily use.



Reliable



The single sampling arm connected to an integrated diluter module (no consumable or glass parts) guarantees extremely high accuracy and minimum risk of contamination thanks to the programmable automatic washing of the sampling probe at every analysis cycle. The instrument's level sensor prevents sampling errors and makes it possible for the operator to have constant updating regarding reagent consumption.

Practical



The reagent plate can hold up to 24 bottles ranging in volume from 35 ml to 6 ml. The entire plate (including the reagents) can be easily removed from the instrument for refrigerated storage.

Flexible



With its four individually removable racks, new samples to be tested can be added or STAT exams immediately carried out without interrupting the readings already programmed and underway. Either primary tubes or sample cups (for minimum quantities of serum) can be used.

Automatic



Thanks to the automatic washing of the six 20 - cuvette racks, there is no need for the operator to intervene during routine running.