



NANOLAB 700

The Smart Choice for Today's Laboratory

NANOLAB 700

Analyzer Overview

Trivitron is proud to announce the soon to be available Nanolab 500- a new, "state of the art" **bench top** analyzer. The new analyzer is packed **with features and technology normally associated with larger and more expensive systems**. It is economical to run, utilizes **easy to use**, highly **intelligent software**, until now, found only on our top of range Nanolab 700 analyzer, thus resulting in analyzer that offers unparalleled value and performance. It is ideal as a main analyzer **for the small laboratory** requiring full automation or as back-up system for "out of hours" or specialized assay testing in larger laboratories.



Reagent Tray

- 72 position reagent tray (75 w/ISE)
- Onboard cooling, reagents can remain onboard until fully used
- Barcoded
- Diatron CC reagents are recommended



Wash system

- 5 position wash station
- Automatic cuvette purity check prior to use
- Reusable cuvettes for low operating cost



Sample Tray

- 95 position sample tray
- Compatible with many sizes of primary tubes and microtainers
- Large patient runs are easily accomplished
- Automatic barcode recognition



Dual Probe

- Dual probe allowing for speed and efficiency
- Clot, Crash and Liquid Detection on both probes
- Pre-heated probe for faster test times

Key features and benefits

Efficiency – The Nanolab 700 incorporates a **95 position patient sample tray** reducing the number of required daily runs. It also has programmable auto dilution for out of range tests. The reagents are very stable requiring few calibrations thus saving time and money. The **72 reagent positions** (75 w/ISE) and onboard refrigeration allow for many tests to be kept on the analyzer at the same time.

Cost Savings – The 700 does not need an expensive water treatment that requires expensive upfront cost and continual purchase of filters. More savings will be realized by utilizing **low cost reagent, calibrator and controls** reducing the overall cost per reportable result. Furthermore, the extended service pricing is comparatively low versus other models of this type.

Easy to Operate – The Nanolab 700 utilizes **Windows based software** for its operation and is very intuitive with barcoding for sample and reagent identification. It also accepts many sizes of primary tubes. Periodic maintenance is minimal and is easy to perform.

Space Utilization – The 700, although a **floor model**, takes surprisingly little space in the laboratory.

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Trivitron Clinical Chemistry Reagents

In combination with the analyzer there are now **60 CE marked tests** in the Trivitron product portfolio to offer a comprehensive range of **high quality** clinical chemistry reagents, calibrators and controls which meet the needs of today's growing laboratories. The new tests include **substrates, enzymes, electrolytes, lipids, specific proteins and special tests**. All reagents have been **specifically designed with the Trivitron automated analyzers** in mind, so the combination of analyzer and reagents allows customers to enjoy features and benefits that are only normally possible on high cost Clinical Chemistry systems.



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- Up to 600 photometric tests/hour, max. 720 tests/hour with optional ISE unit

Samples

- Sample volume: 2 to 100 µl/tests (in increments of 0.2 µl)
- Sample tray: 95 (5 racks x 19 positions) ID barcode equipped positions for routine, stat and control samples and standard solutions
- Primary tube (13 mm diameter, length up to 100 mm)
- Pediatric vial
- Blood collection tubes

Reagents

- Maximum number of simultaneous tests: 36 double to 72 single reagent tests + 3 with optional ISE unit
- 1 to 3 reagents, 2 to 500 µl/tests each (in increments of 1 µl) final total solution volume 180 to 500 µl/test
- Reagent bottle capacities: 72 cooled positions
- Barcode Reader for reagents

Reaction

- Water consumption: 3 l/hour
- Warm air incubator: room, 30°C and 37°C
- Reaction cuvette: reusable plastic 6 mm light path cuvettes
- Reaction time: 0 to 10 min.
- Reaction temperature: 37°C +/- 0.1°C
- Mixing: After dispensing each reagent

Optical System

- End point with reagent blank
- Factor or standard calibration modes

- Priority selection by sample (profile) or by reagent (batch)
- Calibration curve with up to 10 standards
- Automatic curve fit
- Fast and two-point kinetics (zero and first order)
- Routine, batch, STAT, profiles
- Enzymes, Drugs, Turbidimetric tests
- Automatic sample dilution on abnormal levels, excessive substrate consumption and/or lack of linearity
- Import/export data, methods and historic file, quality control and calibrator
- Automatic backup procedure
- Test selection, automatic calibration, calibration curve, multipoint calibration, polygonal
- Serum indices: sample blank compensation, calculated tests
- Quality control, auto re-run, prozone check, record of calibration, data storage (historic results)
- Automatic pre-dilution and post dilution (ratio 1:5 to 1:100)
- Stat: Highest priority in operation
- Continuous sample loading
- Decontaminating post-wash

Quality control

- Full quality control: Levy-Jennings plots, Westgaard multi-rules

Data Management

- Bidirectional LIS interface, RS-232C, ASTM E-1381

Power requirements

- 110/230 VAC, 50/60 Hz, 850 VA

Dimensions

- Size (Width x Depth x Height) 97 cm x 67 cm x 100 cm
- 38.8 x 26.8 x 40 in
- Weight : 175 kg; 385 lbs

MEDICA ISE Module

- Na⁺, K⁺ and Cl⁻ measurements on serum or urine samples

PC Requirements

- Windows™ 8 computer, 4 Gbytes RAM, 500 Gbytes HDD, DVD-ROM drive, min. 1024x768 resolution SVGA, 15" or bigger monitor, keyboard, mouse, 2 RS-232 ports or 2 USB/RS-232 converters for link with the analyzer and LIS, USB port for printer

Printers

- Most printers supported by Windows can be connected. Printout is optimized by customer: analysis results, work list, patient sample list, quality control, calibration curves, and more.

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*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.