



NANOLAB 500

A New Member of the Trivitron Clinical Chemistry Analyzer Family

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.

Key features and benefits

Continuous sample loading – easily accessibility to the sample sectors without the need to open the analyzer

Barcode reading of samples and reagents

Intelligent operating software with automatic reflexing testing, QC scheduling and automatic method calibration.

Clot detection and probe collision prevention system for safe and reliable operation.

The new Nanolab 500 shares **similar software and components with the Nanolab 700 analyzer**. (e.g. sample tray reagent & reaction trays, pipetting arm, photometer, barcode reader, clot detection system and dilution logic). All of which enables **easier service and simplified maintenance** of spare parts inventory stock.

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.

TECHNICAL SPECIFICATIONS*

THROUGHPUT

- Up to 300 photometric tests/hr or up to 480 tests/hour with optional ISE module

SAMPLES AND REAGENT

Samples

- Sample volume:** 2 to 100 µl/test (in increments of 1 µl).
- Sample tray:** 95 (5 racks x 19 positions).
- Primary tube (length up to 100 mm)
- Pediatric vial

Reagents

- Reagent tray:** up to 72 single reagents
- Multiple vials per test
- Refrigerated compartment at 8 °C ± 1 °C

SAMPLES AND REAGENT HANDLING

- Pipetting Arm:** One pipetting arm for sample and reagent, including reaction preheater, probe collision sensor, capacitive level sensor and reaction mixer.
- Probe cleaning:** Internal and external

REACTION

- Water consumption:** 1.5 l / hour (deionized)
- Reaction cuvette:** 80 re-usable plastic cuvettes. Optical length: 6 mm
- Reaction volume:** 180-500 µl

- Warm air incubator:** 37 °C
- Reaction time:** 0 to 10 min.
- Washing station:** 6 stages

OPTICAL SYSTEM

- Light source:** Precision UV quartz halogen lamp
- Photometric range:** -0.1 to 3 A
- Measuring wavelength:** 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700, 750 nm
- Photometry:** single or double-wavelength simultaneous reading

ANALYTICAL MODES

- Full random access or batch mode operation with STAT sample priority function
- Multiple methodology options- End point, Kinetic, Coagulation, Calculated, Turbidimetry, enzymes and Drugs of Abuse.
- Choice of calibration options- Linear, Multilinear, Sigmoid, Logit-log (4 & 5 point) & spline
- Automatic sample dilution and reflex testing

QUALITY CONTROL

- Levy-Jennings, Twin plots & Westgard rules

DATA MANAGEMENT

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

ISE

- Module:** MEDICA ISE module
- Electrodes:** Li+, Na+, K+, Cl-
- Sample types:** Serum and Urine

WORKING CONDITIONS

- Power Requirements:** 110/230 VAC, 50/60 Hz, 550 VA
- Working Temperature:** 18 – 30 °C
- Humidity:** 35-80 %

DIMENSIONS

- Size (Width x Depth x Height) 91 cm x 68 cm x 65 cm 36.4 in x 27.2 in x 26 in
- Weight:** 110 kg; 242 lbs

PC REQUIREMENTS:

- Windows™ 8 computer, 4 Gbytes RAM, 500 Gbytes HDD, DVD-ROM drive, min. 1024x768 resolution SVGA, 15" or bigger monitor, keyboard, mouse, USB ports for link with the analyzer, 1 RS-232 port or 1 USB/RS-232 converter for link with the LIS, USB port for printer

Head Office : # 15, IV Street, Abhiramapuram, Chennai -18
Ph : +91 44 24985050 (6 lines) Fax : +91 44 24985757 / 24672782
Email: groupmarketing@trivitron.com

Regional Offices : BANGALORE (+91 8022115491) | DELHI (+91 11 41354650)
KOLKATA (+91 33 24224493) | MUMBAI (+91 22 66612526 / 27 / 28)

Branch Offices : Cochin, Coimbatore, Pondicherry & Pune

International Offices: Sri Lanka, Abu Dhabi, Dubai, Oman, China & Finland

www.trivitron.com

TRIVITRON
HEALTH CARE
speaking your language

Certified ISO 9001:2004 Company

+91 - 98400 80008 (24 Hour Helpline)