BT1500 TECHNICAL SPECIFICATIONS

ANALYSES TYPE	Clinical Chemistry, Turbidimetric, I.S.E. (optional)
THROUGHPUT	up to 250 Tests/hr
WATER CONSUMPTION	1125ml/hr±20%
ISE MODULE ON BOARD	OPTIONAL – Na, K, Cl, CO_2 (indirect potentiometry)
NUMBER OF REAGENTS	48 TOTAL *24 using 50 ml vessels* *24 using 10 or 20 ml vessels*
REFRIGERATED REAGENT BAY	Yes
REACTION VOLUME	from 180 to 400 µl
SAMPLE VOLUME	from 1.8 to 100 µl
READING CUVETTES	32 non-disposable optical glass
SAMPLING ARMS	1 for Serum and Reagents
SAMPLE TRAY # OF POSITIONS	78 TOTAL *62 Samples –16 Standards and Controls*
TEST MODES	Random Access, Batch, STAT
TEST DIRECTORY	Up to 500
CUVETTE TEMP. CONTROL	Peltier System OFF/30/32/37°C (± 0.2° C)
VACUUM PUMP SYSTEM	Internal
PHOTOMETER	Solid State10 Channel+reference channel (340,380,405,436,480,510,546,578,630,700nm)
PHOTOMETER LINEARITY	Up to 3.0 O.D.
PHOTOMETER SENSITIVITY	± 0.001 Abs.
DILUTER	1 – Long Life Ceramic 340 µl
DILUTER PRECISION	± 0.1% f.s.
DILUTER RESOLUTION	0.1 µl
CLOT SENSOR	Not available
BAR CODE	OPTIONAL, both for Reagents & Samples
BUILT IN QC PROGRAM	3 Levels Known, 3 Levels Unknown
MAINTENANCE	Software assisted
VETERINARY VERSION	OPTIONAL
COMPUTER	OPTIONAL External PC (see PC minimum requirements below)
PROCESS ELECTRONICS	7 microcontrollers. I^2 CBUS protocol
PERIPHERALS	OPTIONAL, on request printer & UPS
PC INTERFACE	USB 2.0
POWER SUPPLY	Universal input 100/240 Volt, 50-60 Hz, 300 W
DIMENSIONS	Height – 20", Width – 30.7", Depth – 22.8" (51x78x58cm)
WEIGHT	116 lb (53 Kg)

EXTERNAL PC MINIMUM REQUIREMENTS

OPERATIVE SYSTEM	Windows® 7/8/10 Professional (32-64 bit)
COMPUTER	Optional Windows® Compatible (Desktop/Laptop)
PROCESSOR	Intel I3, 1.9 GHz or more
RAM	2GB
VIDEO	SVGA 32k Color
DISPLAY	Color 1280x1024
HOST INTERFACE	RS232, Ethernet
ANALYZER INTERFACE	USB 2.0
PRINTER	Windows® compatible color printer
CD DRIVE	DVD or CD-ROM
HD	>5Gb free

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Features may change without notice.

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The Analyzer software is based on Windows® OS, intuitive and easy to use. It can work 24/24hrs, performing Routine or Urgent (STAT) samples (serum, plasma, urine) in Random Access.

Besides Clinical Chemistry the analyzer can perform Turbidimetric tests, as well as Drugs of Abuse dosages. The I.S.E. module is available as optional, upon request.

Positive identification of samples and reagents via bar-code is available as optional, upon request. Programming as well as reading and positioning of samples can be performed via LIS or manually. Reagents can be ready-to-use or concentrated. The refrigerated Reagents chamber ensures the reagents a longer stability.

Depending on the User-defined programming, the analyzer can automatically repeat with dilution the Hyperactive samples and repeat the Pathological samples. Samples can be pre-treated as well as post-treated.
Calibrations and QC have a programmable timer-driven reminder. The analyzer has its own QC, Population and Patients Archives, for statistical data elaboration and Patients Reports printing.
Maintenance is software assisted.

The arm is equipped with a liquid detection sensor and an encoder for correct positioning. Reagents status is continuously monitored.







