

Technical Specifications

BTS

System Overview

User interface	7" full colour touch screen LCD.
Reading modes	Absorbance, End-point, Kinetics, Differential mode, Fixed time. Mono and bichromatisme, with or without reagent blank for all modes.
Printer	Internal thermal printer
Database capacity	>1.000.000 results from patients, blanks, calibrations and QC (5GB of data)
Connectivity	Unidirectional LIMS connection. 2 x USB 3.0 Host, Ethernet RJ45

Optical System

Light source	LED Technology (Optical bench patented by Biosystems)
Nominal range	-0.2 to 3.5 A
Wavelengths	340-670 nm (340, 405, 505, 535, 560, 600, 635, 670)
Bandwidth	5 nm ± 1 nm

Programming

Programmed tests	All Biosystems tests (85 validated tests)
Additional new tests	>10.000 new tests (customized by customer)
Incubation times	From 5 to 9999 seconds
Reading times	From 1 to 60 minutes
Other functions	Formula for results adjustment Linearity and detection limits check Abnormal samples alarms

Calibration

Factor, Calibrator, Multipoint calibration
Linear and non-linear
Repetition of a single point (in multi calibration)

Quality Control

3 control levels per test
Levey-Jennings control chart
Storage of 6 months of data (>500 results/QC level)

Thermostatic System

Thermostatisation range	Peltier system from 25-40°C
Accuracy of the temperature	± 0.5° C
Temperature stability	± 0.2° C in 30 minutes

Flow Cuvette

Flow cuvette	Optical Quartz glass,
Flow cuvette volume	18 µL
Sample vessels	Removable cuvettes (macro, semi-micro and micro) and round tubes (12 mm diameter)

Fluidic System

Type of operation	Stepper motor pump
Nominal flow	10 mL/min
Aspiration volume	100 µL - 5000 µL
Waste bottle (included)	1L

Installation

Electrical requirements	100 V to 240 V AC, 50/60 Hz
Instrument Power Consumption	5 W performing measurements 2 W during stand-by
Temperature	10-35°C
Max. Rel. humidity	85%
Size (H x W x D)	180 mm x 245 mm x 438 mm (7.1 in x 9.6 in x 17.3 in)
Weight	4,3 kg. (9.43 lb)



BTS

BioSystems



At the leading edge
of diagnostic technology



The new BTS generation created and developed with User Centered Design

BioSystems offers a new generation of BTS semi-automatic analyzer, create and develop with and for end-user, equipped with our well-known patented and advanced LED optics system and with a complete new intuitive and smart software and a modern design that will bring your lab to the next level in clinical analysis, keeping our commitment with accurate and reliable tests results.

Designed by Biosystems in Barcelona (Spain)



Smart Technology

- LED technology allows the highest resolution and precision in all measurements with a very low electrical consumption and no maintenance.
- Full fledged operating system, with high database capacity (5 Gb of data) and complete connectivity with PC and LIMS for data transfer
- High quality optical quartz flow cuvette to increases the accuracy of analytical results



User Centered Design

- New fashion and modern design. Designed in Europe at BioSystems Barcelona (Spain).
- High quality full colour and touch screen for rapid access to all functional menus improving User Experience.
- Ergonomically design for sample input and great user experience



Accurate Performance

- Large storage data capacity (>1.000.000 tests results for samples and QC)
- Easy to use and friendly software interface for end-users
- Low maintenance and reagents consumption
- Accurate and reliable results