SMART 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.

Designed by BIOSYSTEMS in BARCELONA (Spain)

Compact & smart design
Easy & intuitive interface
Great results accuracy
Full connectivity

SMART DESIGN

New elegant and modern device.

High quality full colour and touch screen for rapid access to all functional menus.

Ergonomically design for sample input and great user experience.

The new BTS generation created and developed with USER CENTER DESIGN

BIOSYSTEMS offers a new generation of BTS semi-automatic analyser, 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.

LED TECHNOLOGY

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 quarts flow cuvette to increase the accuracy of analytical results.

TECHNICAL SPECIFICATIONS

SYSTEM OVERVIEW

User interface: 7” full colour touch screen LCD.
Reading modes: Absorbance, End-point, Kinetics, Differential mode, Fixed time. Mono and bichromatic, 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)
Digital resolution: 0.0001 A for 2.0 A
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)

FLOW CUVETTE

Flow cuvette: Optical Quartz glass
Flow cuvette volume: 18 µL
Sample vessels: Removable cuvette (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

THERMOSTAT SYSTEM

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

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)

BioSystems

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BioSystems BTS

At the leading edge of diagnostic technology.

LED TECHNOLOGY