

## TECHNICAL SPECIFICATIONS

### OPTICAL SYSTEMS:

Range of measurement: 0-3.5 A all wavelengths  
Wavelengths: 340, 405, 505, 535, 560, 600, 635, 670 nm  
Plus 2 free positions for optional filter and 1 filter IR Ref  
Semi Half Bandwidth: 5 nm  $\pm$  1 nm  
Light Source: LEDs  
Settings: monochromatic and bichromatic

### THERMOSTAT SYSTEM

Peltier system from 25-40 °C

### FLUIDIC SYSTEM

Continuous flow system with peristaltic pump incorporated  
Stepper motor pump operation  
Sipping volume can be programmed from 100  $\mu$ l to 5 ml  
Automatic adjustment of sample volume  
Automatic adjustment of sample position

### CUVETTES

Flow Cuvette of 18  $\mu$ l  
Removable Cuvette: macro, semi-micro and micro  
Round tubes with 12 mm

### PRINTER SCREEN AND KEYBOARD

Thermic printer  
Screen: graphic LCD lighted screen 320 x 240 px  
Keyboard: tactile membrane

### METHODS OF CALCULATION

Absorbance  
End Point  
Kinetic  
Differential Mode  
Fixed Time  
Ratiometric Mode  
Cut Off

### CALIBRATION

Factor  
Calibrator  
Calibration Curve

### CALIBRATION CURVE

Up to 8 Calibration points  
Up to 3 replicates per point  
Axis: Linear and log  
Calculation Functions: spline, linear regression, quadratic regression, polygonal



### PROGRAMMING

Table of techniques up to 150  
Table of units: up to 50 units of 8 characters  
Personalization of the Instrument  
Control of screen and printer  
Quality control storage of the last 31 results  
Software in 13 Languages  
Storage up to 2000 Patients Results

### KINETIC ANALYSIS

Reaction speed calculation by linear regression  
31 measurements of absorbance during the pre-programmed time period

### QUALITY CONTROL

2 controls per test  
Levey-Jennings control chart  
Westgard's Rules

### INSTALLATION CHARACTERISTICS

Voltage: 100V-240 V  
Frequency: 50/60 Hz  
Maximum power: 30 W  
Temperature: 10-35 °C  
Max Rel humidity: 75 %  
Height: <2000 m  
Dimensions: 420 x 350 x 216 mm  
Weight: 4 kg

### OPTIONAL BATTERY PACK:

Capacity: 2000 mAh  
Duration: 2 hrs

**BTS 350**

**BTS 350**  
SEMI-AUTOMATIC ANALYZER

*At the forefront of diagnostic technology*

BioSystems  
**BTS-350**



• Certified Management System  
• EN ISO 9001  
• EN ISO 13485

BTS-05-09  
Cod. 99777

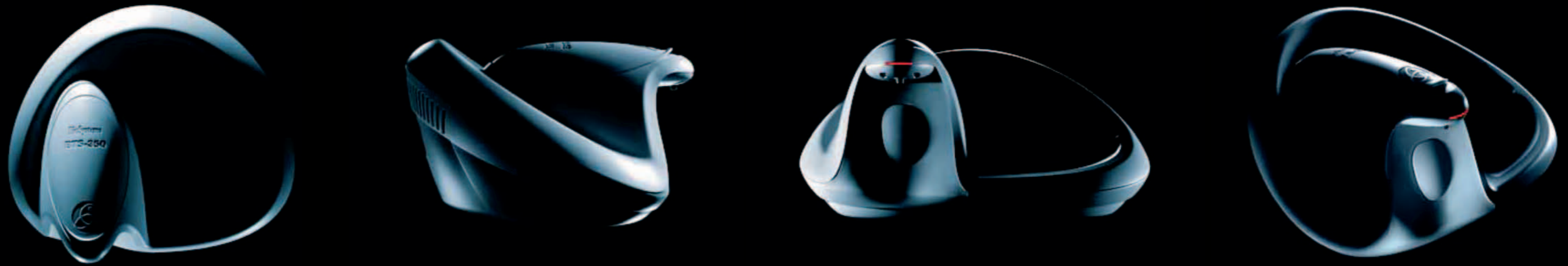
Costa Brava 30, 08030 Barcelona (Spain) Tel. +34-93 311 00 00 Fax +34-93 346 77 99  
www.biosystems.es biosystems@biosystems.es

**BioSystems**  
REAGENTS & INSTRUMENTS



# State Of The Art Technology ...At Your Fingertips

**BTS 350**



Aware of the critical role laboratories play in the health of the community, **BioSystems** pursues excellence with regards to quality and reliability without compromise. In this context, **BioSystems** offers the new streamline designed **BTS-350** semi-automatic analyzer with durable mechanics, advance optics and innovative **LED** powered system. This stylish but robust **BTS-350** addresses the needs of any laboratory with special attention to optimize consumption and low maintenance.

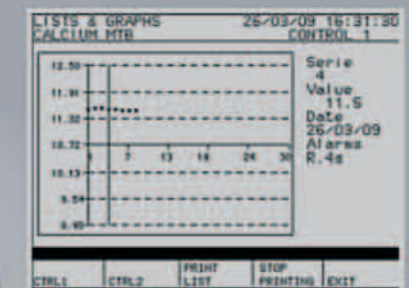
## Hardware

- LEDs:**  
The BTS-350 is truly a new generation in the class of semi-automatic analyzers as it is the **ONLY** analyzer with a complete range of LEDs optimized for Biochemistry and Turbidimetric assays. The LEDs not only have low energy consumption, they also have practically unlimited lifetime.
- HCF:**  
Incorporating state-of-the-art optics with an innovative design, the BTS-350 has Hard Coated Filters with extensive lifespan and an optical system designed to optimize measurements for both Biochemistry and Turbidimetric assays
- Minimal Energy Consumption and Low Maintenance:**  
In conjunction with the LEDs and HCF, the BTS-350 is designed to avoid frequent parts replacement and consumes negligible energy. Consequently, both operation and maintenance cost are kept low.
- Advanced Ergonomic Design:**  
In addition, the BTS-350 is equipped with a very sensitive aspiration pulse sensor directly at the back of the reaction tube allowing easy manipulation of different samples.
- Power Failure Protection:**  
The BTS-350 is designed with the use anywhere anytime concept in mind. The instrument is supplied with an Optional Battery Pack that is charged automatically when the instrument is connected to a normal electrical feed and provides 2hrs of back-up energy for those critical times when there is no electricity.



## Software

- User Friendly Interface (straightforward software):**  
The BTS-350 software has been designed with the user kept in mind. The software is straightforward and very easy to use; thus, offering both flexibility and simplicity.
- Comprehensive Test Panel:**  
With its capacity to store up to 2000 results, 150 pre-programmed techniques and quality control tracking, the BTS-350 is not only compact but also very versatile as it offers numerous measurement modes: Endpoint, Kinetics, Differential Mode, Fixed-time, Absorbance, etc
- USB Port:**  
In addition to the built-in thermal Printer, data (graphs and results) can be printed out/archived/exported with the use of a USB Flash Memory Drive



Control	Parameter	Value
Control 1	name	YES
	name	BCS1
	batch	040A
	Minimum control 1	7.95
Control 2	name	YES
	name	BCS2
	batch	039A
	Minimum control 2	11.11

Save On Problems ...Choose Quality