



CY009 English

# CYANSmart

## Semi-Automatic Biochemistry Analyzer



**To all Healthcare Professionals,**

*Thank you for your interest. We appreciate it!*

*Cypress Diagnostics provides the tools and solutions that let clinical laboratories worldwide deliver clear and precise diagnostic results. We manufacture the equipment needed for handling the samples, analyzers to perform the tests, reagents to carry out the tests and - increasingly often - the software platforms to report the results.*

*Cypress Diagnostics supplies clinical laboratories.*

*We are a quality-oriented company with ISO certification and CE-approved products. Our production facility is located in Hulshout, Belgium. Our products are preferred and appreciated by users in more than 100 countries worldwide. Cypress Diagnostics is a family-owned business, founded in 1995 in Leuven, Belgium.*

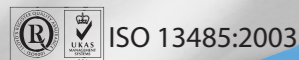
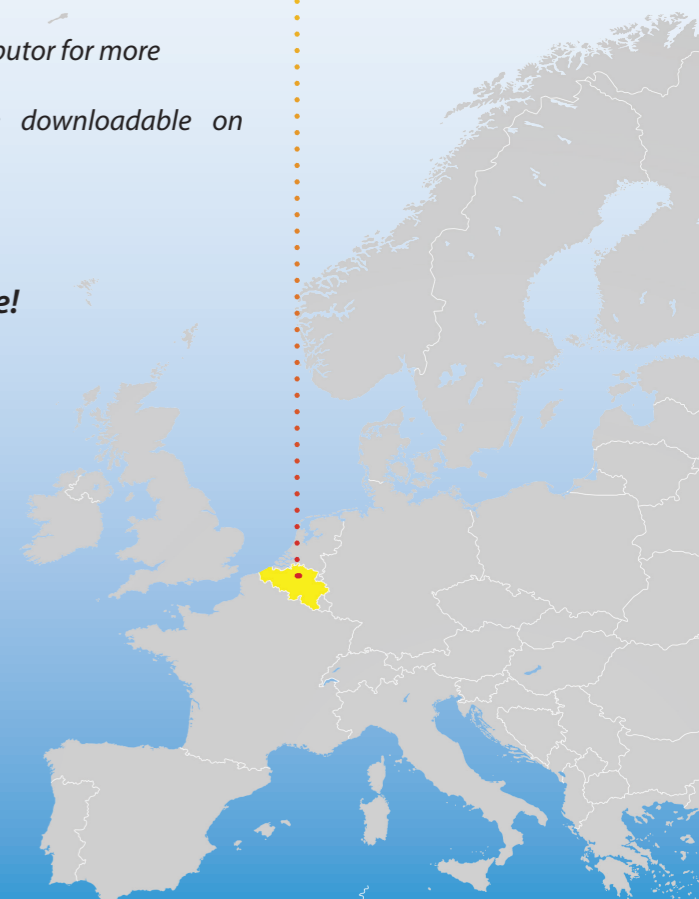
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**Test the difference!**

*Kind regards,*

*The Cypress Diagnostics Team*



The **CYANSmart** is an an easy-to-operate semi-automatic biochemistry analyzer. This new in vitro diagnostic instrument is designed to have powerful features in a compact, independent unit.

**Cost savings:**

- Minimum reaction volume of 500 µl means decreased costs per test
- Limited consumables required
- Extra items included on delivery (two fuses, five paper rolls, a spare lamp, and pump tube)
- Integrated incubator, printer, pump, and flow cell
- Long life lamp, further extended by power saving / standby mode
- Robustness of the analyzer with minimal daily maintenance
- Analyzer guides the user and so reduces mistakes

**Flexibility:**

- On-board printer for printing automatically or on request printing
- Seven wavelengths (340, 405, 492, 510, 546, 578, and 620 nm filters) cover all clinical diagnostic applications
- Five calculation methods (absorbance, endpoint, two-point, kinetic, bichromatic) and three calibration methods (factor, calibrator, and multi-point calibration) provide plenty processing options with one system
- Three blank options (sample blank, reagent blank, and water) provide background correction of the reagent and sample coloration

**Convenience:**

- Easy tracking of all the results from each patient by a unique identifier
- All Cypress Diagnostics biochemistry reagents are preprogrammed on delivery
- 180 open channels are programmable to allow for other user-defined tests
- Memory for up to 6000 sample results
- Large font size, easily legible and read with little effort
- LCD touch screen with virtual alphanumeric keyboard
- Multilingual capability
- Minimal daily maintenance

**Desktop Software:**

- Clear reporting with patient overview with flags and reference ranges
- Easier reporting and result sharing (email & network printing)
- Elimination of transcription errors (no more manual data entry)
- Data back-up
- Convenient upgrade of the methods by quick upload



**Technical Specifications**

**Optical system**

- Flow cell: 32 µl, 10 mm light path
- Min. reaction volume: 500 µl per test
- Halogen lamp 6V/10W
- Photo detector: Silicon based (range 300 – 900 nm)
- Measurement range: 0,000 – 3,500 Abs
- Wavelength: 340 – 620 nm
- Wavelength selection: Automatic via 7 interference filters: 340, 405, 492, 510, 546, 578 & 620 nm

**Flow cell**

- 25 °C, 30 °C, 37 °C, ambient temperature
- Peltier element
- Thermostatic control: PID controlled, ±0,5 °C
- 10 mm

**Incubator**

- 20 places with 14 mm diameter
- 37 °C
- Thermostatic control: PID controlled, ± 1 °C

**Display**

- Back-illuminated LCD
- Touchscreen calibration possible
- 800 x 480 pixels (screen size: 7 inch)

**Printer**

- Automatic or on-demand printing
- Built-in thermal printer
- 24 characters per line
- Prints graphs

**Power supply**

- AC 110/220 V - 50/60 Hz
- Automatic voltage and frequency switch
- Grounding required
- Power: 200 VA, reduced to 140 VA in standby mode
- Power save / Standby mode

**Software**

- Unique 16 digit patient ID
- Memory: 180 test methods and 6000 sample test results
- Cypress Diagnostics methods preprogrammed on delivery
- Languages: English, French, Spanish
- QC: 2 controls programmable plus a separate QC results menu with (printable) graphs
- Calculation methods: absorbance, endpoint, two-point, kinetic, bichromatic
- Calibration methods: factor, calibrator and multi-point calibration
- Blank options: sample blank, reagent blank and water
- Incubation time: 0 – 999 seconds
- Reading time: 3 – 999 seconds

**Weight and dimensions**

- Instrument: 9 kg, 20 x 43,5 x 41,5 cm (H x W x L)

**Environmental requirements**

- Ambient temperature: 15 °C – 30 °C
- Relative humidity: 30 % - 70 %

**Order code:**

- CY009: [CYANSmart](#)

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