

# A Unique Combination of Benefits



The Sysmex<sup>1</sup> CA-1500 System is ideal for medium- to-large coagulation laboratories that require an easy-to-use analyzer capable of running clotting, chromogenic and immunologic assays, simultaneously. This medium-sized analyzer is offered with an optional cap-piercing unit.

## Product Description

The Sysmex CA-1500 System is a fully-automated blood coagulation analyzer for *in vitro* diagnostic use that can quickly analyze large quantities of samples with a high-degree of accuracy. The Sysmex CA-1500 System can run clotting, chromogenic and immunologic assays. The analyzed data can be retained as stored data, displayed, or printed. The instrument offers a number of built-in features, such as automatic repeat, redilution, reflex testing and multi-dilution analysis (MDA). In addition, priority processing capability is offered for STAT samples. Cap-piercing units are available on an optional basis.

## Test Menu

• PT:	Thromborel® S reagent, Dade® Innovin® reagent
• APTT:	Dade Actin® reagent, Dade Actin FS reagent, Dade Actin FSL reagent, Pathromtin* SL reagent
• Fibrinogen:	Multifibren* U reagent, Dade Thrombin reagent
• Thrombin time:	Test Thrombin reagent, Thromboclotin* reagent
• Batroxobin time:	Batroxobin reagent
• Factor deficiency:	Factor II, V, VII, VIII, IX, X, XI, XII
• Lupus anticoagulant:	LA1 screening reagent, LA2 confirmation reagent
• Protein C pathway:	Protein C reagent, Berichrom* Protein C, ProC® AcR, Factor V Leiden, ProC Global, ProC Global/F V Leiden, Protein S Ac
• Heparin:	Berichrom Heparin reagent
• Antithrombin III:	Berichrom Antithrombin III (A), INNOVANCE* Antithrombin†
• D-Dimer:	INNOVANCE D-Dimer, D-Dimer PLUS
• Von Willebrand factor:	VWF Ag*
• Chromogenic assays:	Factor VIII Chromogenic, Berichrom Alpha2 – Antiplasmin, Berichrom Plasminogen

† Available fall 2008

**Sysmex® CA-1500 System**

Answers for life.

**SIEMENS**

# Sysmex CA-1500 System Specifications

## Measurement

• Principle:	Photo-optical, continuous sequential
• Method / channels:	Clotting (8 single channels), chromogenic and immunologic (4 single channels)
• Source lamp:	8 LEDs (Light Emitting Diode) with 660 nm wavelength for clotting,  1 halogen lamp with 405, 575 and 800 nm for chromogenic and immunologic
• Measuring frequency:	10 Hz for clotting 0.4 Hz for chromogenic, immunologic

## Sample Handling

• Type of sample:	Primary tubes and sample cups
• Sampling mechanism:	Automated sample and standard pre-dilution
• Barcode identification:	Automatic positive sample identification
• Carrier system:	Continuous-access sample racks (10 tube capacity)
• Maximum load:	5 racks (50 samples)
• Storage temperature:	Room temperature
• Racks:	5 sample racks, continuous loading Various specific sample holders available
• Handling:	Flexible mix of cups and various sample tubes: capped and uncapped

## Reagent Handling

• Reagent recognition:	Manual or external reagent barcode identification
• Dispensing mechanism:	2 probes: 1 heated for reagents and 1 for samples, controls and calibrators
• Loading system:	Manual placements of reagents, removable reagent tray
• Reagents on board:	39 reagent/control positions  (including buffer and rinse)
• Storage temperature:	36 cooled reagent positions on board at 15 °C 3 reagent positions at room temperature
• Handling:	Flexible mix of reagent positions on reagent racks Various adapters available
• Mixing position:	4 reagents

## Throughput

	Approx. 120 PT tests/hour
	Approx. 80 simultaneous PT/APTT tests/hour

## Operation

• Access mode:	Continuous random-access (samples, reaction tubes)
• Calibration:	Automatic pre-defined calibration
• STAT:	5 priority positions

### Reaction Tubes

• Type:	Single reaction tubes
• Loading:	Automatic continuous-access 300 reaction tubes on board
• Sample plates:	5 sample plates (250 wells)

### System Fluid

• Cleaning and rinsing:	Washing solutions on board
• System containers:	20 L containers for water (rinse) and waste (optional)

### Computer / Printer

• Workstation:	Built-in PC
• Display:	Built-in touch screen
• Printer:	Graphic printer (optional)

### Software

• Interface:	ASTM, CA-1000 protocol
• Host connection:	Bi-directional RS-232C serial port

### Power Supply

• Operating voltage:	117, 220, 230 or 240 VAC $\pm$ 10 %
• Power consumption:	720 VA
• Mains frequency:	50 – 60 Hz

### Environmental Conditions

• Operating temperature:	15 - 30 °C, optimum 23 °C
• Environmental humidity:	30 - 85 % (not condensing)

### Dimensions

• Dimensions:	Main unit: 780 mm x 500 mm x 500 mm (W x D x H) Sampler: 580 mm x 280 mm x 270 mm (W x D x H)
• Weight:	Main unit: Approx. 75.0 kg (including cap-piercer: approx. 78.0 kg) Sampler: Approx. 9.5 kg

### Quality Control

• X-control, Levy-Jennings control
• Multi-rule (Westgard Rule) monitoring

### Remarks

• The Sysmex CA-1500 System is available for sale in the US and complies to the IVD Directive 98/79/EC.
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### Ordering Information

Catalog No.	Product Description	Quantity
993-2421-1	Sysmex CA-1500 System	1 unit
993-2481-5	Sysmex CA-1500 System with cap-piercing unit	1 unit
973-5322-0	OPSU-6 sampler for 5 x 10 tubes	1 unit
973-7521-4	Barcode unit for Sysmex CA-1500 System (optional)	1 unit

For more information please contact your local sales representative or visit our website.

<sup>1</sup> Siemens is the exclusive distributor of Sysmex® CA Systems in Western Hemisphere and select countries worldwide.

This brochure is for use outside the United States. Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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Order No. A91DX-0700926-C1-4A00  
Order No. 131666 E 08/06-S1  
Printed in USA

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