

# Auto-S



## Features

Automatic random access, smart and compact  
Clotting, Chromogenic, Immunologic measuring methods  
User friendly touchscreen interface, simple and easy to operate  
High throughput routine assays  
Labor saving, simple programming and read walk-away system  
Reagent open system, close system on request  
Multi-language software  
Functions: Automatic dilution, calibration and screening analysis.  
Fibrinogen determination: derived methods and clauss method.  
History data: 10,000 curves data, and 100,000 testing results data.  
Support: Variety of integrated reports and external printers.

## Sampling System

The liquid level detection function  
The reagent preheating function: 3-5 seconds warm up.  
Anti-collision function

## Constant Temperature System

Reagent refrigeration: 3°C ~15°C  
Reagent preheating: 37°C constant temperature control for the needle tube of sample probe within 5 seconds.  
Incubation Function: 8 incubation holes with 37°C constant temperature control.  
Constant temperature control of testing positions:  
7 testing positions with 37°C constant temperature control.

## Measurement System

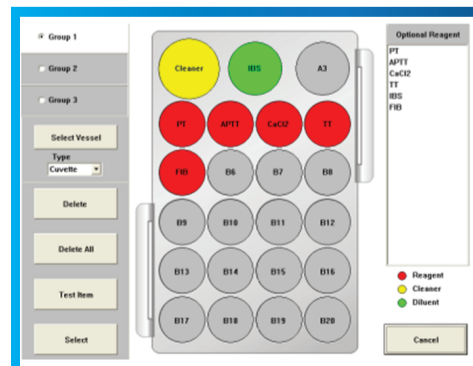
Measurement system: clotting, chromogenic and immunologic.  
Coagulometric (Turbimetric) Measurements: 5 testing positions with the semiconductor light-emitting diode of red light (LED)  
Chromogenic Measurement: 01 testing position at 405nm LED  
Immunological Measurement: 01 testing position at 575nm LED

## Sample Area

03 sample racks with total of 27 sample positions.  
Supports: Standard test tube, original blood collection tube (10mm~16mm) and 1.5ml sample cup

## Reagent Position

Special reagent holder with a basket device  
Positions: 23 reagent positions (03 first defined as cleaning position and diluents position)  
Temperature Accuracy: 13°C~15°C.  
Size of reagent bottle: 1mL~ 10mL with outer diameter of  $\Phi$ 14mm~ $\Phi$ 36mm;  
Support: Adapters for vial reagent bottles



## Test Items

Name	Test Item	Methodology	Default Unit
prothrombin time	PT	Coagulation	s
activated partial thromboplastin time	APTT	Coagulation	S(second)
fibrinogen	FIB	Coagulation	mg/dL
thrombin time	TT	Coagulation	S(second)
Protein C	PCco	Coagulation	%
LA1 screening	LA1	Coagulation	S(second)
LA2 screening	LA2	Coagulation	S(second)
factor analysis	II, V, VII, VIII, IX, X, XI, XII	Coagulation	%
antithrombin III	AT3	Chromogenic	%
α2- antiplasmin	α2-AP	Chromogenic	%
plasminogen	Plg	Chromogenic	%
Protein C (for Chromogenic)	PCch	Chromogenic	%
heparin	Hep	Chromogenic	IU/mL
D-Dimer	D-Dimer	Immunologic	ug/mL
fibrinogen degradation	FDP	Immunologic	ug/L

## Technical Data

### Technical Specification

Throughput	60 tests/hour for PT 50 tests/hour for PT and APTT
Measuring method	Clotting: Scattered light detection method Chromogenic: Colorimetric method at 405nm LED Immunologic: Turbidimetric method at 575nm LED
Memory	100,000 test results and 10,000 reaction curves
Quality control	12 QC file x 10 test items x 30 curve in 12 months selflife
Calibration	6 points x 10 items
STAT sample	Priority
Auto re-diluent/re-test	Available
Barcode scanner	Support
<b>Sample tray</b>	
Sample tray	27 positons, user-defined STAT
Incubation temperature	37°C + 0.5°C
<b>Reagent tray</b>	
Reagent tray	23 positions with cooling < 15°C
<b>Reaction tray</b>	
Cuvettes on board	72 pieces
Min reaction volume	150µl
Reaction temperature	37°C + 0.5°C
<b>Probe</b>	
Probe heating	On

Automatic washing	Both inside and outside
Collision	Collision protection, liquid level detection and inventory checking
<b>Print out</b>	
Print	Built-in thermal printer and support external printer
<b>Others</b>	
Mains input:	A/C 100V/220V, 50Hz or 60Hz
Input power:	400VA
Operational environment:	10°C ~32°C, relative humidity ≤ 70%
Storage environment:	-20°C~55°C, relative humidity ≤ 85%
Water consumption	< 0.5 L/hour
Dimension	(L x W x H) 660mm x 580mm x 510mm
Weight	53 Kg



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