FEATURES

Number of available simultaneous assays	15
Number of programmable assays	unlimited
Requirement for factor assays manual manifulation or dilutions	No
Number of available reagent containers	24
Multiple reagent configurations supported	YES
Testing capacity: Number of specimens/ Number of tests	25/up to 500
Minimum sample volume required	4ul
Specimen volume requirement to run PT or PTT/ Factor VIII activity	50ul/25ul
Sample bar-code reading capability	YES
Reagent bar-code reading capability	YES
Indication for tests remaining/ insufficient sample volume	YES
Automatic detection of reagents needed for analysis	YES
Possibility dilute the sample before analysis	YES
Automatic rerun available/ Auto reflex testing capability	YES
Reading time extension for prolonged clotting times	YES
Set up options	1) Reagent volumes/ Sample volumes 2) Number and source of reagents 3) Incubating times/ Reading times
Autocalibration/ Multipoint calibration supported	YES
Analysis time completion/ Throughput per hour for	PT Alone: < 6 minutes/ 120 tests Mix (PT, PTT) < 6 minutes/ 90 tests Fibrinogen: < 6 minutes/ 120 tests Factor VIII activity assay: < 11 minutes/ 60 specimens
STAT test time delay	6 minutes and 18 seconds
Automatic transfer of QC results to LIS	YES
Security features	Over - heating fuse/ Mechanical stop switch/ Cover open/ closed sensor/ Probe protection sensor/ Power surge protection
Monitoring functions	Instrument monitoring functions 1) Temperature of heating/ cooling sections 2) Presence or absence of sample racks - 3) Reagent insufficient volume 4) Reagent cuvettes absence 5) Buffer or rinse solution shortage 6) Mechanical parts operation 7) Self diagnostic mode Sample monitoring functions 1) Sample volume sufficiency evaluation 2) Automatic re-dilution analysis 3) Reflex testing
Automatic supply of reaction cuvettes	YES
Language options	Chinese, English, Other

LABEX CANADA

AUTOMATIC COAGULATION ANALYZER
Ci–120

AUTOMATIC COAGULATION ANALYZER Ci-120

Ci-120 is a fully automatic bench top analyzer able to pe form a wide ra ge of coagulatio t sts i cli ical labo ato i s o hos itals.

The analytical unit includes:

Cuvettes storage and transportation unit

Stores, transfers, moves and discards the analytical cuvettes

Sample/ reagent robotic arm

Single, mechanical, arm. Aspirates and dispenses samples and reagents.

Light detection unit

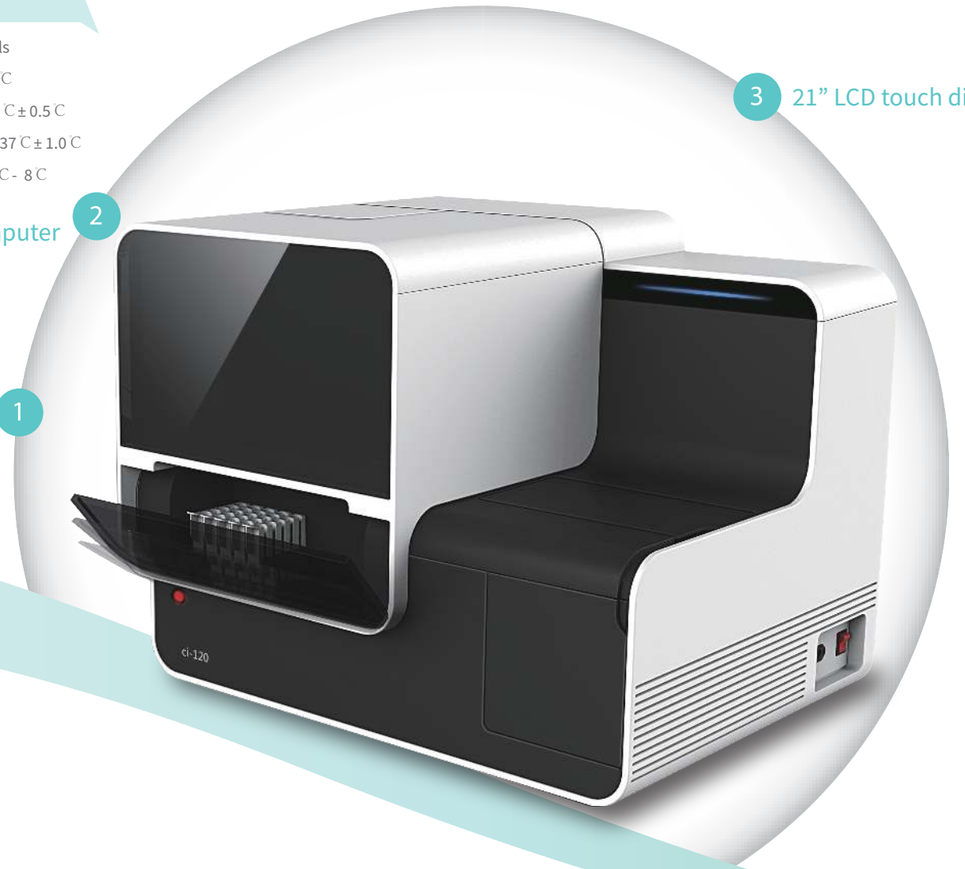
Detects optical parameters of the sample transparency, light diffusion, turbidity and/ or changes in light absorbance to determine the clotting times.

Probe rinsing unit

Efficient probe rinsing from inside and out to prevent samples and reagents contamination

Temperature control unit

a) Light detection unit controls temperatures at: 37℃± 0.5℃
b) Sample heating section: 37℃± 0.5℃
c) Reagent incubation probe: 37℃± 1.0℃
d) Reagent cooling section: 6℃- 8℃



Motor control unit

Controls each motor’s action

Samples area

Continuous sample racks loading with easy access to samples.
Five racks, each capable of holding 5 samples (25 samples in total)
Barcode reader operated

Reagents area

Contains, four racks, each capable of holding 6 reagents.
Total 24 positions available operated barcode reader.
Reagents refrigerated for 6℃- 8℃

ACCURACY

FIB： ±10% OR LESS

Able to use	whole blood or platelet - poor plasma
Model type	benchtop
Dimensions (H × W × D) - analyzer itself	640mm × 800mm × 630mm
Dimensions (H × W × D) - with packing	870mm × 970mm × 760mm
Weight - analyzer itself	75kg
Weight - with packing	125kg
Power	ac. 110-240V, 550/ 60Hz, < 800VA
Operational temperature range	Between 15℃ and 30℃
Operational relative humidity range	Between 35% and 85%
Analytical methods used	clot detection (LED optical transmission method); chromogenic and immunologic methods
Available wavelenghts	405nm; 545nm; 670nm; 800nm

PARAMETERS REPRODUCIBILITY

Parameter	CV%	
	Normal	Abnormal
PT（s）	≤3.0%	≤8.0%
APTT（s）	≤4.0%	≤8.0%
FIB（g/L）	≤8.0%	≤15.0%
TT（s）	≤10.0%	≤15.0%
D-Dimer（ug/L）	≦10%	≦15.0%
AT-III	≦10%	≦15.0%

OPERATING PRINCIPLES

Coagulation method analysis

The change in sample turbidity is detected (transformation of fibrinogen into the fibrin) after the plasma is mixed with the reagent. Changes of sample’s transparency and diffusion pattern are measured.

Chromogenic method analysis

Detects the change in light absorbance after mixing the plasma and reagent together.

Chromogenic method analysis

Plasma and latex reagent are mixed to start a reaction, and variation in absorbance of the latex clumps generated is detected.

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