



Blood Gas &  
Electrolyte Analyzer

**seamaty**

# SG1

## Blood Gas & Electrolyte Analyzer



### Measured Parameter

Parameter	Reportable Range	Parameter	Reportable Range	Calculated Parameter	
Na <sup>+</sup>	90 ~ 180mmol/L	pCO <sub>2</sub>	10.0 ~ 150.0mmHg	TCO <sub>2</sub> *	cHgb*
K <sup>+</sup>	1.5 ~ 11mmol/L	pO <sub>2</sub>	10 ~ 425mmHg	cHCO <sub>3</sub> <sup>-</sup> *	BE(ecf)*
Cl <sup>-</sup>	65 ~ 140mmol/L	Hct	10 ~ 75%PCV	BE(b)*	cSO <sub>2</sub> *
Ca <sup>2+</sup>	0.25 ~ 2.50mmol/L	Glu	1.1 ~ 38.9mmol/L <small>In development</small>	AG*	
pH	6.500 ~ 8.000	Lac	0.3 ~ 20.0mmol/L <small>In development</small>		

### Test Cartridges

Item	pH	pO <sub>2</sub>	pCO <sub>2</sub>	K <sup>+</sup>	Na <sup>+</sup>	Cl <sup>-</sup>	Ca <sup>2+</sup>	Hct	Glu	Lac
BG3	●	●	●							
BE4				●	●	●	●			
BE5	●			●	●	●	●			
BG7	●	●	●	●	●	●	●			
BG8	●	●	●	●	●	●	●	●		
BG10	●	●	●	●	●	●	●	●	●	●

\*Store under 10°C~30°C for a shelf life of 7 months.  
Store under 2°C-8°C for a shelf life of 12 months.

A handheld blood analyzer  
that delivers lab-quality,  
diagnostic results in minutes.

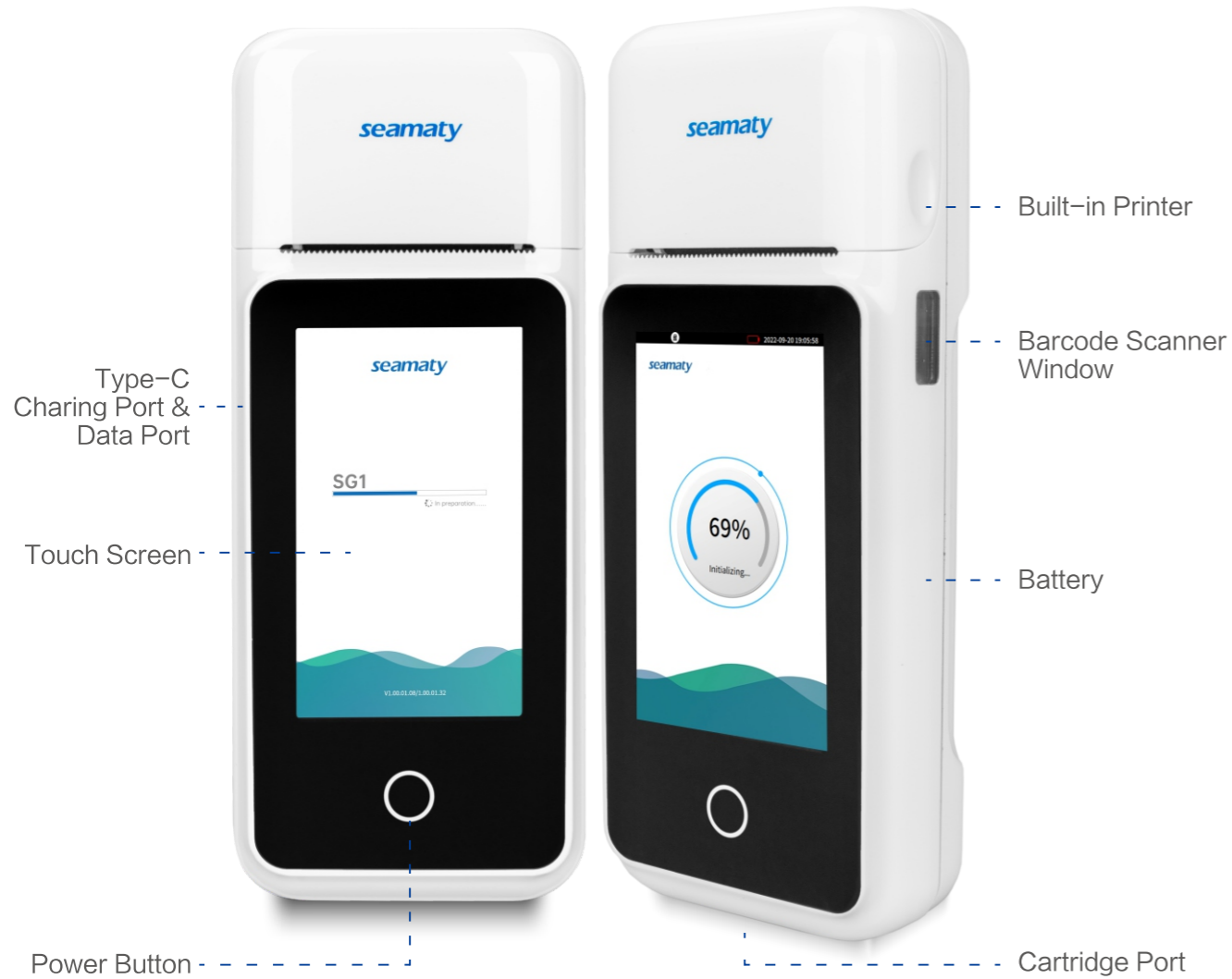
**seamaty**

Seamaty Diagnostic Co., Ltd  
+86-0755-28235680  
www.seamaty.com

Address: 19th F, Bldg B, High-tech Park,  
Guangqiao Rd, Guangming District,  
Shenzhen 518107 P.R.C.  
info@seamaty.com

www.seamaty.com

## Overview



## Reader

<b>Sample</b>	Whole blood	<b>Sample volume</b>	100 $\mu$ L
<b>Bar code</b>	QR code	<b>QC &amp; calibrate</b>	IQC (Intelligent Quality Control)
<b>Display</b>	4.3 IPS touch screen	<b>Connectors</b>	Type-c
<b>Power</b>	5V 2A	<b>Battery</b>	3.7V, 5000mAh
<b>Printer</b>	Built-in thermal printer	<b>Operating temperature</b>	Temperature: 5 - 32 $^{\circ}$ C; Relative humidity $\leq$ 85%
<b>Weight</b>	600g		



### Easy to use

Testing can be performed in 3 simple steps at the patient's side with only 2 or 3 drops of whole blood.



### Handheld portability

Lightweight with built-in battery allowing diagnose at the point of care, patient side, out in the field or exam room.



### Fast results

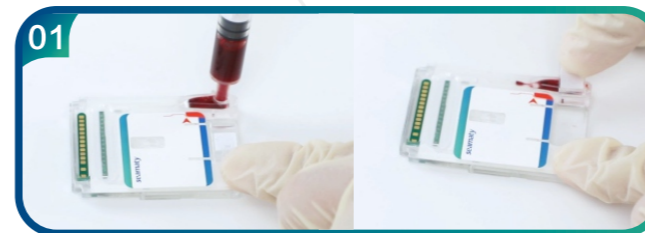
Get accurate results in 4 minutes at the patient's side to enable rapid decision-making, and optimize patient-care.



### Multi-parameter card

Single-use test card offer a broad menu of tests on a single, portable platform. Each test card has a unique combination of biosensors to suit a wide range of clinical needs.

## Easy 3 steps operation



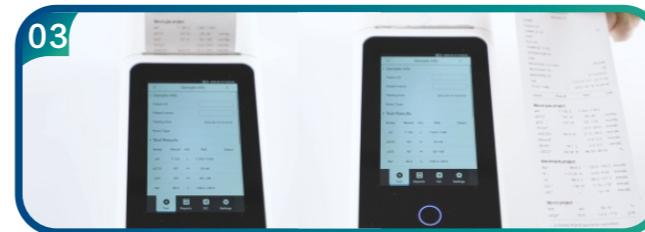
### Step 1: Add sample

Add 2 or 3 drops of whole blood into cartridge



### Step 2: Insert cartridge

Insert the cartridge into the analyzer



### Step 3: Read result

Read the test report in 4 minutes

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SG1

WELCOME

Get Started

Test

Reports

QC

Settings

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血气电解质7项测试卡(干式电化学法)

钠离子(Na<sup>+</sup>) 氯离子(Cl<sup>-</sup>) 钾离子(K<sup>+</sup>)  
二氧化碳分压(pCO<sub>2</sub>) 氧分压(pO<sub>2</sub>)  
钙离子(Ca<sup>2+</sup>) 酸碱度(pH)

有效期至: 2025/12, 2025/12  
批号: 20250101

Package: 20 PCS/BOX



# SMT-50 5-Part Auto Hematology Analyzer

- 3 Reagents.
- 3 part & 5 part all-in-one.
- 60 Samples/hour
- Low consumption of reagent and sample.



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*Smart Auto Hematology  
Analyzer Designed for Clinic*



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**SD1 Auto Dry Biochemistry Analyzer**

# **Capillary tube with heparin anti-coagulation**

Capillary tubes for fingerprick sampling!

*Better*

*Easier*

*Quicker*

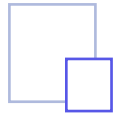


**NEW  
RELEASE**

# **SMT-120 is a Cash Cow**

Especially suitable  
for small hospitals and clinics





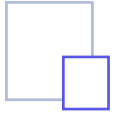
## Feature 1: Small and portable



\* Small & saving space.  
Dimensions:  
22cm \*21.3cm\*191cm



\* Portable  
Only 5 kg,  
suitable for visiting patients



## Feature 2: Easy and fast



1. Add sample  
(100 $\mu$ L)



2. Insert disc  
(12-minute/test)



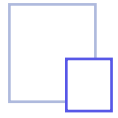
3. Read results  
(instantly)



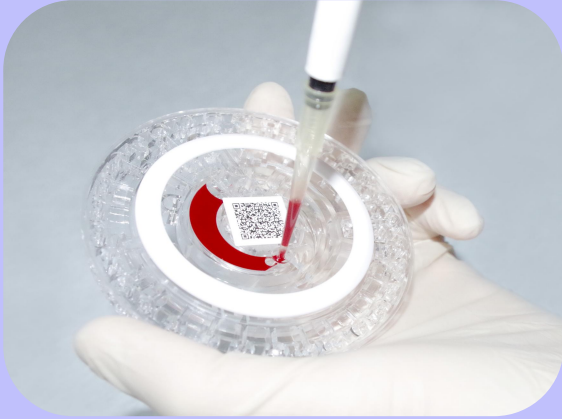
Only 3 steps.  
No complex  
operation



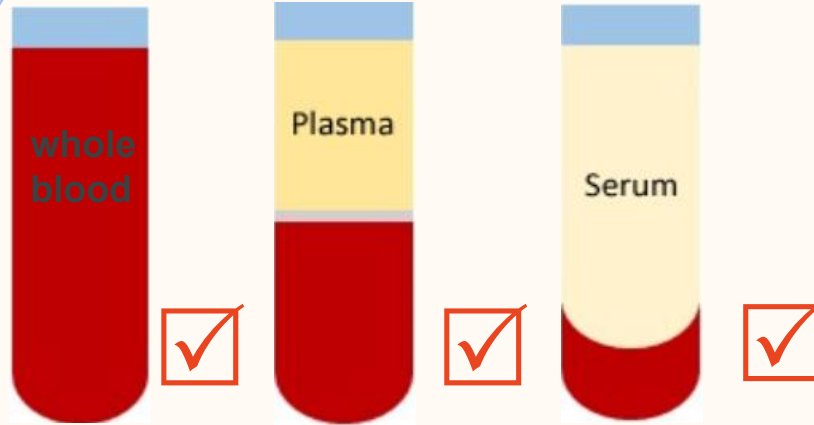
Only 12 minutes of  
testing time.  
No long waiting time



## Feature 3: Low sample consumption



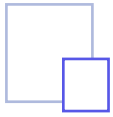
**Sample Volume: 100µl**



**Whole blood, Plasma, Serum, all OK**



**Capillary blood is OK too**



## Feature 4: Multiple tests/disc once for all

### General Chemistry II Kit

7 Electrolyte Kit, 1 Sample/Disc

Ca, Cl<sup>-</sup>, K<sup>+</sup>, Mg, Na<sup>+</sup>, PHOS, tCO<sub>2</sub>

⚠ Use serum, heparin lithium (or sodium) whole blood, heparin lithium (or sodium) plasma. Unpack and test as quick as possible after the panel has returned to room temperature.



**EC REP** MedNet EC-REP GmbH  
Borkstrasse 10,  
48163 Münster, Germany

**LOT**  
**REF AW00246**

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### General Chemistry III Kit

19 General Chemistry III, 1 Sample/Disc

ALB, ALP, ALT, AMY, AST, CHE, CK, Crea, DB, GGT, GLU, HDL, TB, TBA, TC, TG, TP, UA, UREA, U/C\*, A/G\*, GLOB\*, LDL\*

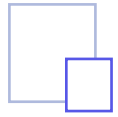
⚠ Use serum, heparin lithium (or sodium) whole blood, heparin lithium (or sodium) plasma. Unpack and test as quick as possible after the panel has returned to room temperature.




**EC REP** MedNet EC-REP GmbH  
Borkstrasse 10,  
48163 Münster, Germany

**LOT**  
**REF AW00867**


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# Feature 5: Accurate testing



Biochemistry Analyzer




SMT-120


**Lambert-Beer Law**



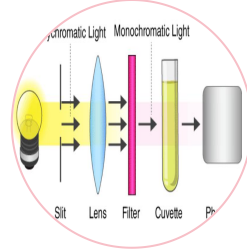
**Intelligent QC**



Reagent Lyophilization Technology



Microfluidic Technology

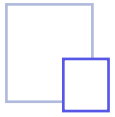


Photoelectric Colorimetry Technology



Unique QR Code Technology

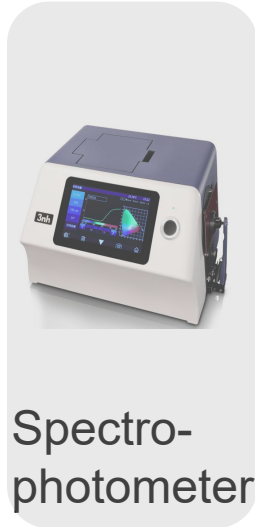
Intelligent Quality Control Technology



# Feature 6: Versatile and powerful



SMT-120



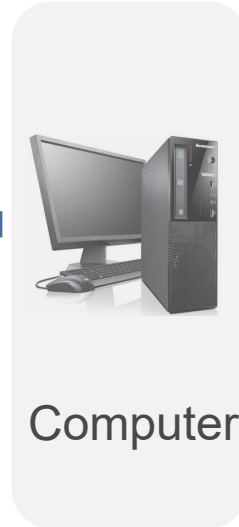
Spectro-  
photometer



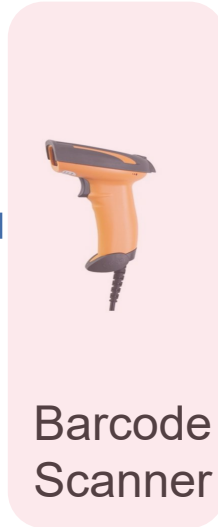
Centrifuge



Incubator



Computer



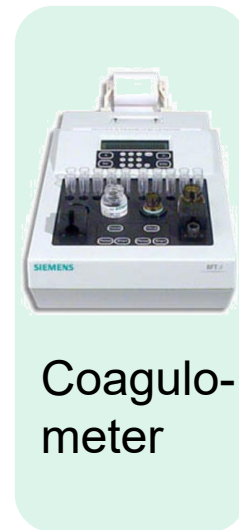
Barcode  
Scanner



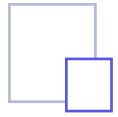
Thermal  
Printer



HbA1c  
Analyzer



Coagulo-  
meter

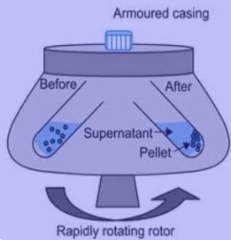


## Feature 7: Smart and Intelligent

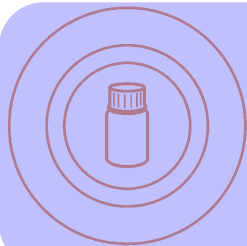
### 3-Self



**Self dilution function**



**Self centrifugation function**



**Self calibration function**

### 4-Automatic



**Automatic diagnosis**



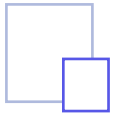
**Automatic scanning**



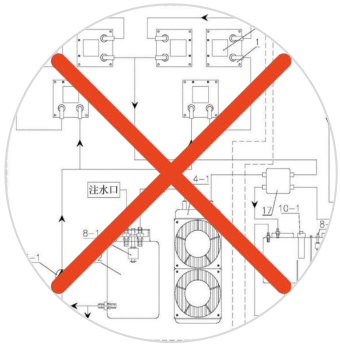
**Automatic printing.  
Built-in printer**



**Automatic upgrade.  
Online error report  
Wifi available**



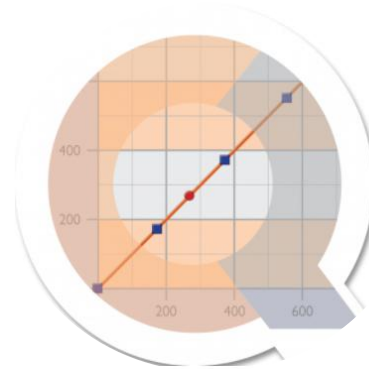
## Feature 8: Maintenance free



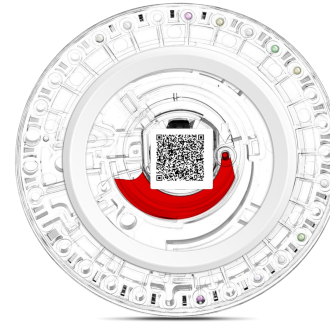
No pipes,  
No valves,  
No liquid circuit,  
No replacement



No need of  
washing,  
No waste water



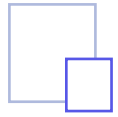
Automatic  
calibration &  
Quality Control  
technology



One reagent  
disc/per patient,  
No maintenance  
of different  
reagents



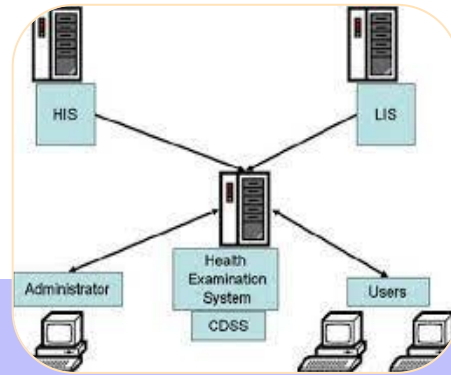
2 years of  
warranty



## Feature 9: Easy data management



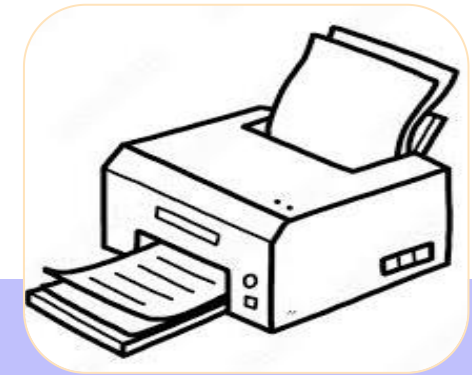
**Memory of  
test results**



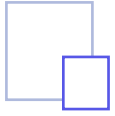
**To LIS**



**To computer**



**To external printer**



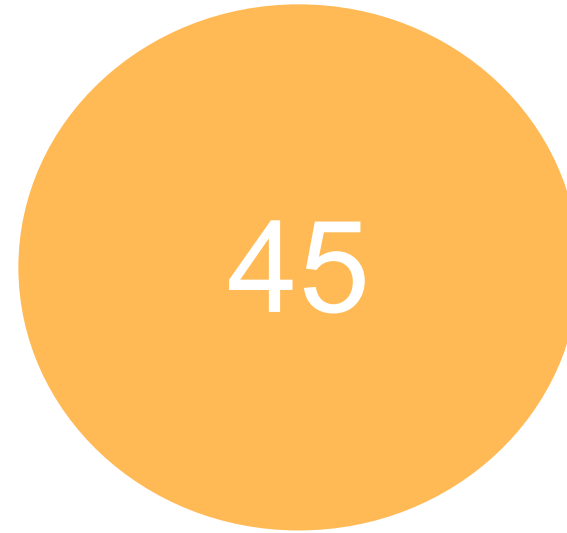
## Feature 10: Rich reagent kits



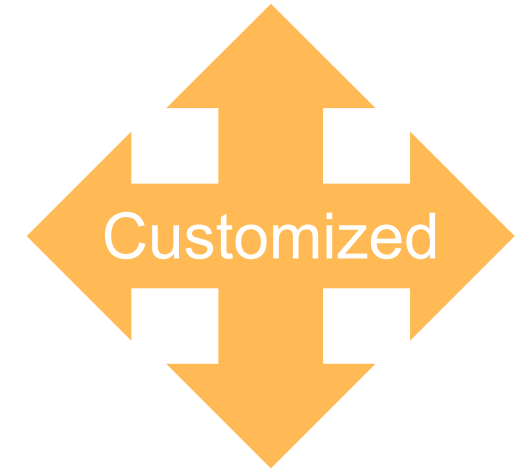
26 kinds of  
Fixed  
reagent  
Kits/panels/  
discs





As many as 23  
parameters on  
one reagent  
Kit



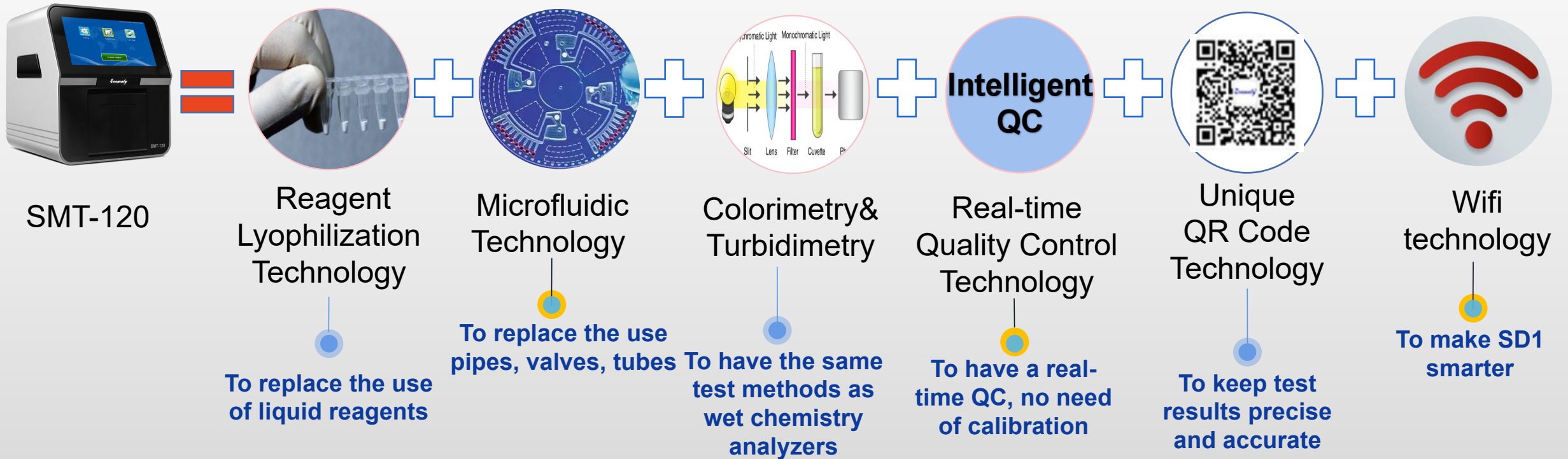
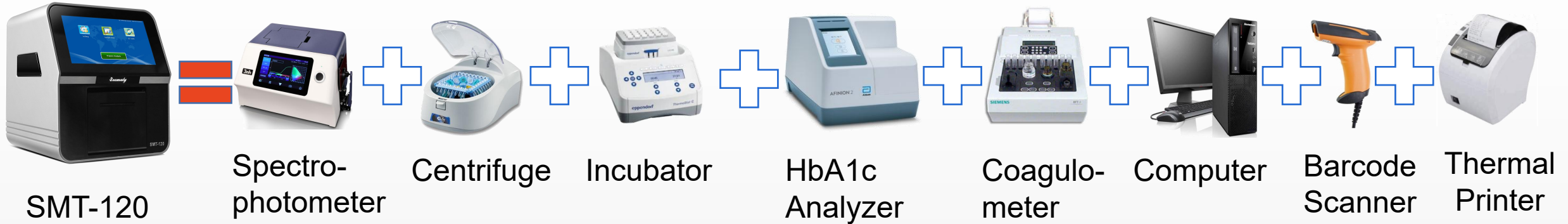
45  
parameters  
can be  
tested



**Customized**  
reagent kits are  
available

	<b>SMT-120</b>	<b>Wet Chemistry Analyzer</b>
		
<b>Principle</b>	<b>Lambert-Beer Law</b>	<b>Lambert-Beer Law</b>
<b>Measurement</b>	<b>Colorimetry+Turbidimetry</b>	<b>Colorimetry+Turbidimetry</b>
<b>Wavelengths</b>	<b>8</b>	<b>5~8</b>
<b>Sample</b>	Whole blood, serum, plasma	Serum, plasma
<b>Sample volume</b>	Low	High
<b>Reagent</b>	Lyophilized reagent beads	Liquid reagent
<b>Reagent usage</b>	No surplus, no waste	Surplus storage and waste problems
<b>Reagent application</b>	No need of matching	R1+R2 matching each parameter
<b>QC</b>	Automatic real-time QC system	Manual QC periodically
<b>Calibration</b>	Calibration not required	Calibration frequently required
<b>Carryover</b>	No	Yes
<b>Operation</b>	Only 3 steps	Many steps and Complicated
<b>Test Time</b>	12 minutes	longer
<b>Maintenance</b>	Minimal	Frequent
<b>Centrifuge</b>	Self-centrifuge	Extra centrifuge
<b>Incubation</b>	—	Yes
<b>Mixture</b>	—	Yes
<b>Valve &amp; pipe</b>	—	Yes
<b>Liquid waste</b>	—	Yes
<b>Water supply</b>	—	Water quality is a concern
<b>Printing</b>	Internal printer	Internal/External printer
<b>Display</b>	Touch screen+Android system	Touch screen/external computer
<b>Versatility</b>	All kinds of medical occasions	Hospitals and clinics
<b>WIFI connection</b>	Yes	—
<b>Manpower</b>	Minimal dependence on skilled manpower	Need of professionals
<b>Operation safety</b>	High	Low
<b>Weight</b>	5kg	10kg for semi, 50-200kg for auto
<b>Warranty</b>	2 years	Usually 1 year

# Why SD1 suits small hospitals & clinics——Powerful functions



# Why SMT-120 suits small hospitals & clinics——Solving 6 pain points



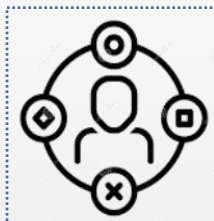
## Want Less operation

A doctor used to operate a few machines to complete a test.



## Want to save cost

A clinic wants to save cost.



## Want fast and easy diagnosis

A quick and overall diagnosis is vital for doctors to help patients.



## Want Less work on calibration and control

Clinic needs frequent calibration and control, costing time and money.



## Want accurate tests

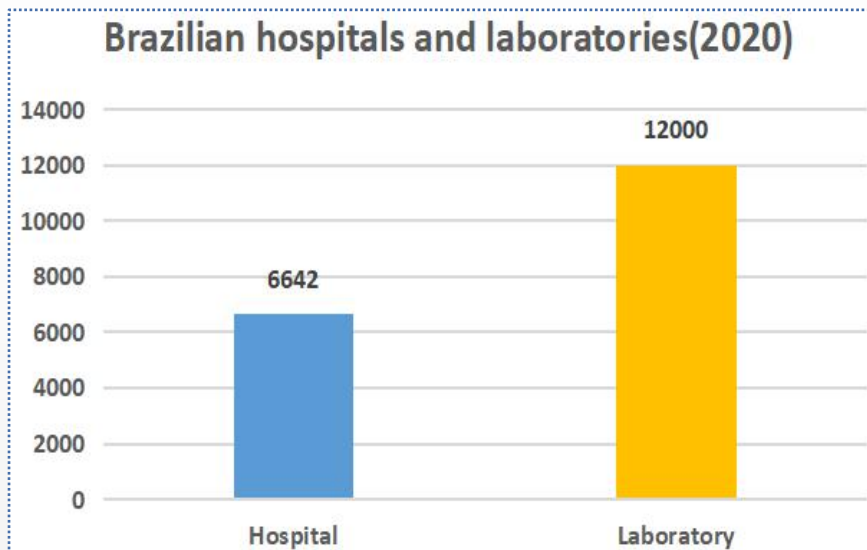
Precise and accurate test results are important.



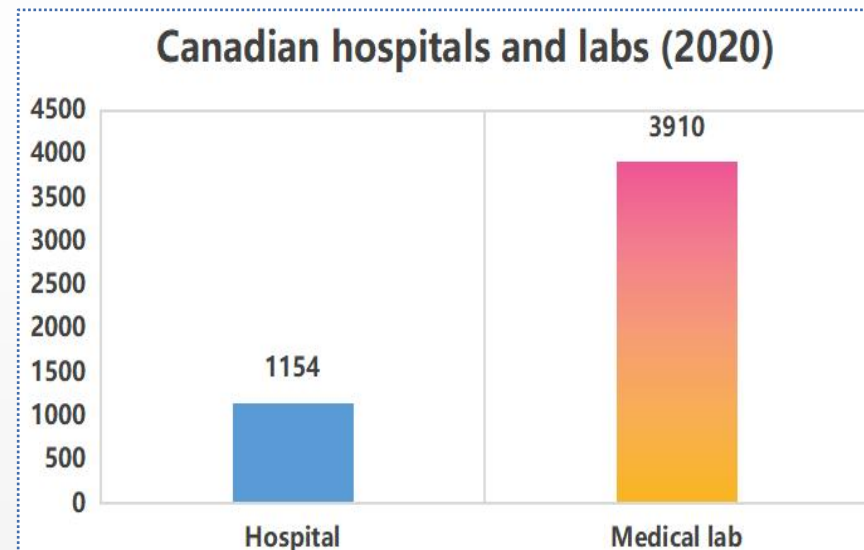
## Limited space

A clinic usually doesn't have enough space for large IVD devices.

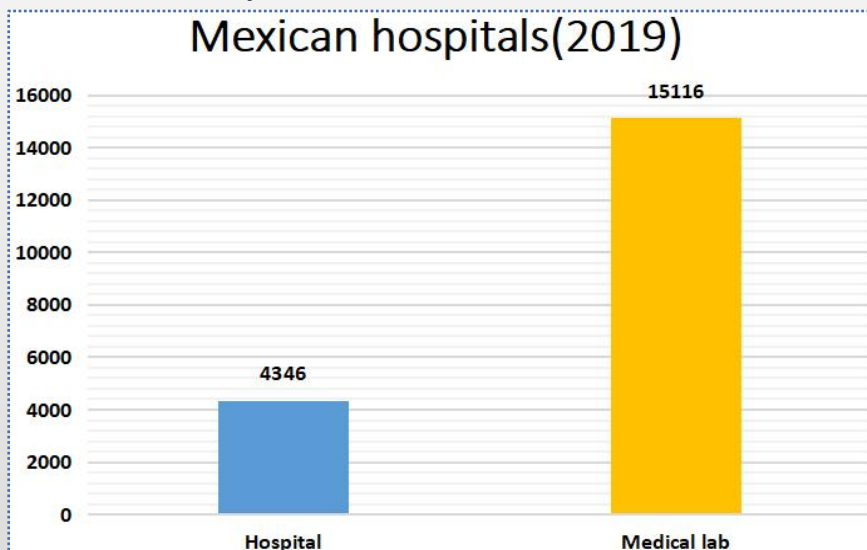
# SMT-120 has great market potential in hospitals/clinics and laboratories



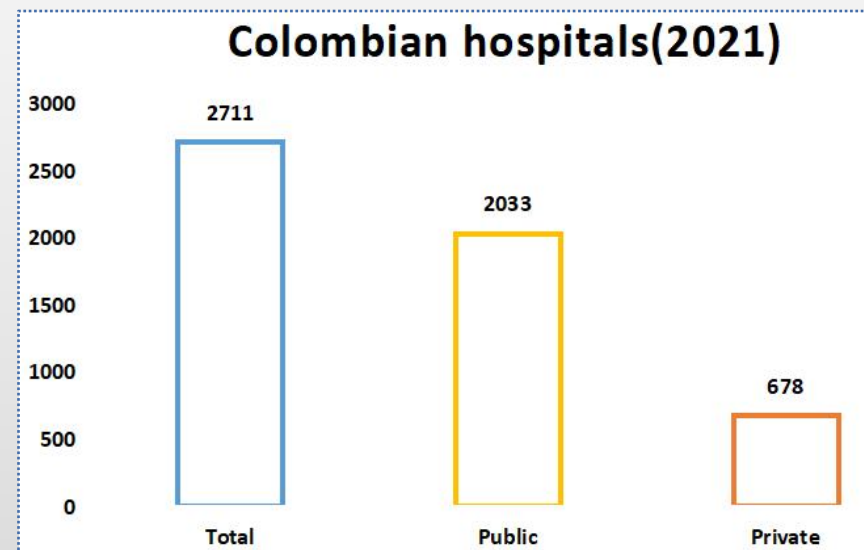
Source:<https://www.vaneck.com/>



Source:<https://www.ic.gc.ca/>



Source:<https://datamexico.org/>



Source:<https://www.statista.com/>

# Why SMT-120 is a profitable product



## Easy to sell

It is easier for clients to buy SMT-120 for it is not as expensive as large analyzer.



## Less investment

No need large investment to start business.



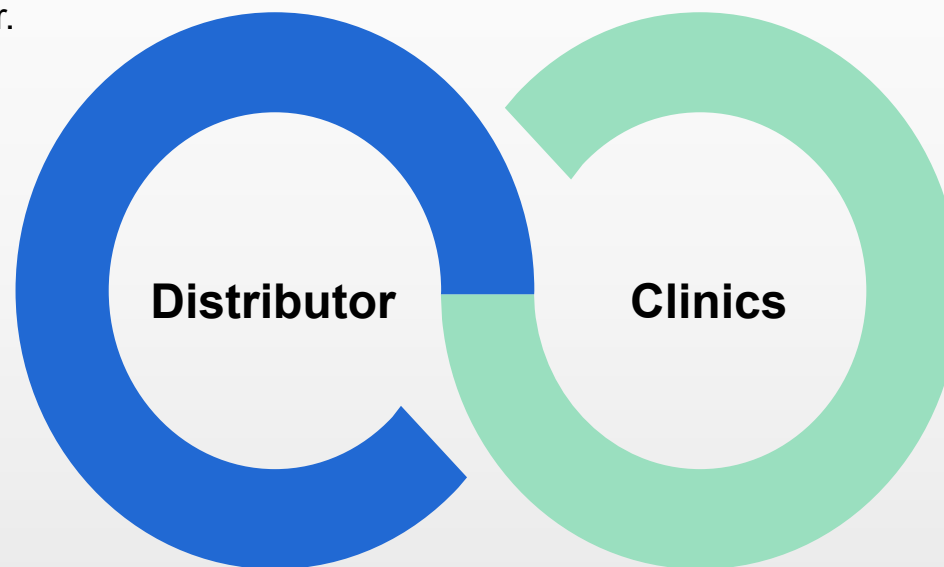
## Constant income

Distributors also earn money from selling reagent kits.



## Fast delivery

SMT-120 is delivered by air/express, a short time to reach clients and high capital turnover.



## Saving cost

- \* No need of set-up.
- \* No daily calibration
- \* No maintenance
- \* No need of professionals
- \* Saving time for doctors and patients



## Powerful diagnosis

- \* Just within 12 minutes
- \* 4~23 parameters/per test
- \* Easy to use with automated functions



## Increase of income

- \* Clinics could charge more on a quick overall diagnosis
- \* Clinic could provide multi choices for disease screening

## How much one partner can make profit from distributing SD1

Net profit	Analyzer	Reagent kits (300 kits/year/unit)	Total income/year
1 unit	\$2,000-3,000	\$900-1500	\$2,900-4,500
10 units	\$20,000-30,000	\$9,000-15,000	\$29,000-45,000
50 units	\$100,000-150,000	\$45,000-75,000	\$145,000-225,000
100 units	\$200,000-300,000	\$90,000-150,000	\$290,000-450,000
300* units	\$600,000-900,000	\$270,000-450,000	\$870,000-1350,000

Note:

- One partner from Italy had successfully installed 300&400 units of analyzers in 2022&2023.
- And he has purchased 1050 units by the end of 2023.

# Suggestions to kick off the business



# 4 segments to ignite the SMT-120 potential market



A super salesman



A super sales team



# More occasions for possible installation



● Emergency rooms

● Community hospitals

● Clinics

● Family doctors

● Sports team



● Pharmacies

● Health Centers

● Medical rescue

● Disease Screening

● Cruise and Ship

# Photos from clients



| [www.seamaty.com](http://www.seamaty.com) |

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