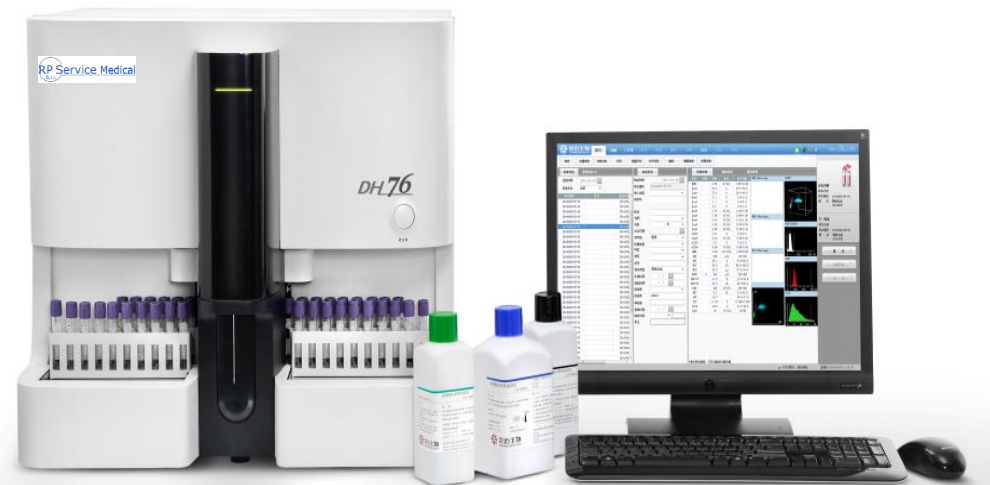
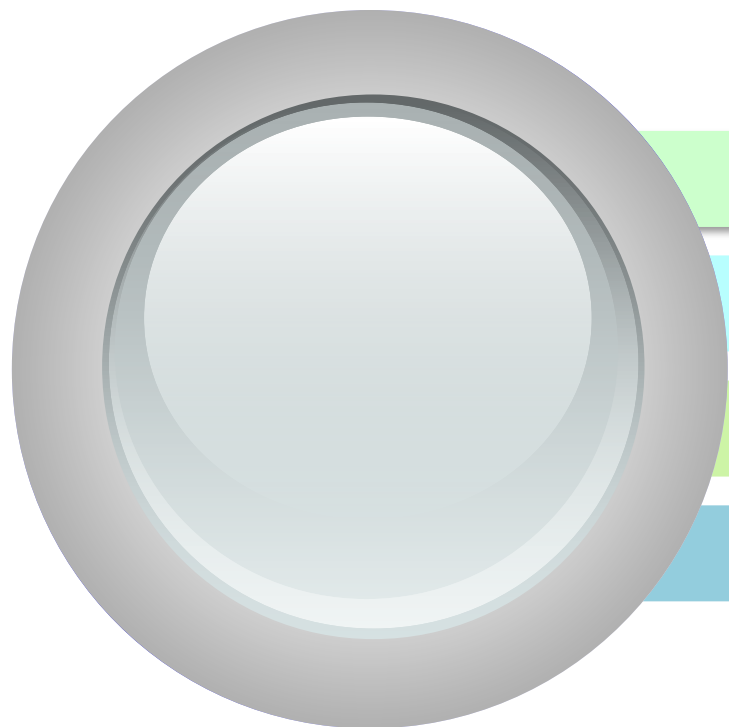


AZIMUT DH76 Introduction



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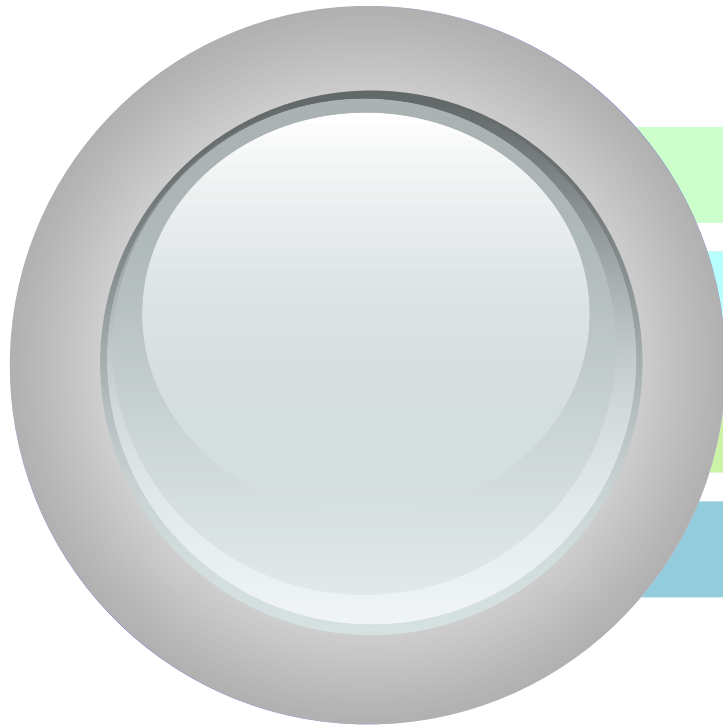
4 Q & A

DH 76

- ◆ Laser scatter + Chemical dye + Flow cytometry
- ◆ 5-part differentiation, **29** parameters
- ◆ 3D scattergram
- ◆ Up to **80** samples per hour
- ◆ Independent channel for **Basophil** measurement
- ◆ Powerful capability to **flag** abnormal cells
- ◆ Large storage capacity: up to **100,000** samples
- ◆ Support bi-directional **LIS**



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User friendly operation

➤ Easy operation.

Operation buttons

Result display

Operation buttons

Sample ID	Mode	Run Time	Para.	Flag	Result	Unit	Ref. Range
1	VWB-CBC+DIFF	2015/05/13 15:49:1	WBC		6.92	10 ³ /uL	4.00-10.00
2	VWB-CBC+DIFF	2015/05/13 15:50:1	Neu%		58.5	%	50.0-70.0
3	VWB-CBC+DIFF	2015/05/13 15:51:2	Lym%		34.9	%	20.0-40.0
4	VWB-CBC+DIFF	2015/05/13 15:52:2	Mon%		3.9	%	3.0-12.0
5	VWB-CBC+DIFF	2015/05/13 15:54:4	Eos%		2.7	%	0.5-5.0
191-001	VWB-CBC+DIFF	2015/05/13 16:14:3	Bas%		0.0	%	0.0-1.0
191-002	VWB-CBC+DIFF	2015/05/13 16:15:4	Neu#		4.05	10 ³ /uL	2.00-7.00
191-003	VWB-CBC+DIFF	2015/05/13 16:16:5	Lym#		2.42	10 ³ /uL	0.80-4.00
191-004	VWB-CBC+DIFF	2015/05/13 16:17:5	Mon#		0.27	10 ³ /uL	0.12-1.20
191-005	VWB-CBC+DIFF	2015/05/13 16:19:0	Eos#		0.18	10 ³ /uL	0.02-0.50
191-006	VWB-CBC+DIFF	2015/05/13 16:20:1	Bas#		0.00	10 ³ /uL	0.00-0.10
191-007	VWB-CBC+DIFF	2015/05/13 16:21:1	*ALY#		0.04	10 ³ /uL	0.00-0.20
191-008	VWB-CBC+DIFF	2015/05/13 16:22:2	*ALY%		0.5	%	0.0-2.0
191-009	VWB-CBC+DIFF	2015/05/13 16:23:3	*LIC#		0.00	10 ³ /uL	0.00-0.20
191-010	VWB-CBC+DIFF	2015/05/13 16:24:4	*LIC%		0.0	%	0.0-2.5
191-011	VWB-CBC+DIFF	2015/05/13 16:25:5	RBC		4.86	10 ⁶ /uL	3.50-5.50
			HGB		15.1	g/dL	11.0-16.0
			HCT		47.7	%	37.0-54.0
			MCV		98.2	fL	80.0-100.0
			MCH		31.1	pg	27.0-34.0
			MCHC	↓	31.7	g/dL	32.0-36.0
			RDW-CV		11.7	%	11.0-16.0
			RDW-SD		49.8	fL	35.0-56.0
			PLT		194	10 ³ /uL	100-300
			MPV		10.1	fL	6.5-12.0
			PDW		16.1	%	15.0-17.0
			PCT		0.196	%	0.108-0.282
			P-LCR	↑	45.5	%	11.0-45.0
			P-LCC		88	10 ⁹ /L	30-90

*** means "Research use only, not for diagnostic use".

Operation buttons

Result display

Operation buttons

High performance

➤ **Fast Turn-Around-Time (TAT)**

Throughput: 80 samples / hr



Low blood consumption

<i>Mode</i>	<i>Whole Blood</i>	<i>Prediluted</i>
<i>CBC</i>	11 μL	20 μL
<i>CBC+Diff</i>	20 μL	

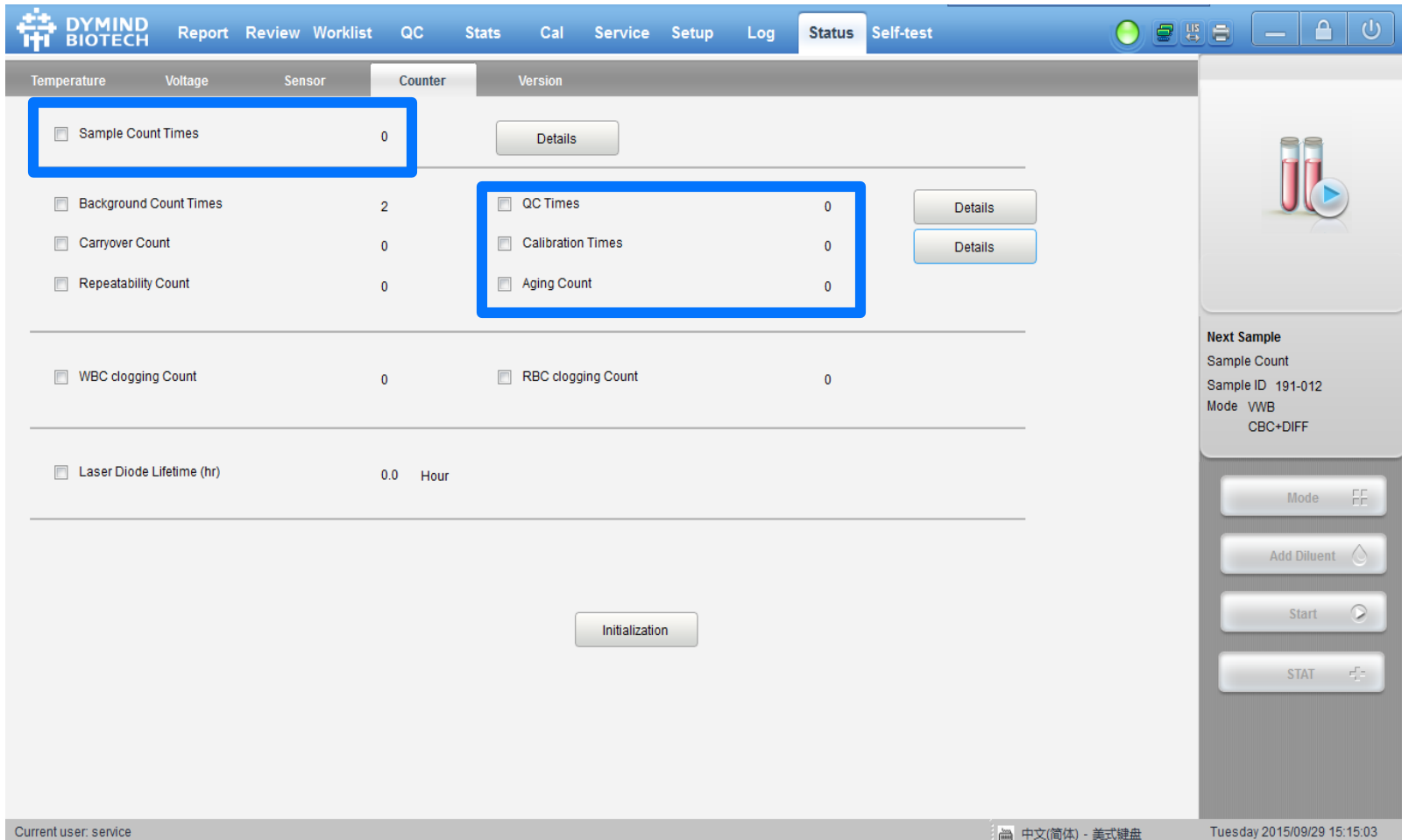


Various test modes

- ❑ Venous Blood CBC+DIFF
- ❑ Venous Blood CBC
- ❑ Capillary Blood CBC+DIFF
- ❑ Capillary Blood CBC
- ❑ Prediluted CBC+DIFF
- ❑ Prediluted CBC
- ❑ Auto Whole Blood CBC+DIFF
- ❑ Auto Whole Blood CBC

Suitable for rental or lease

- **Close reagent system.**
- **Dymind software will count total number of sample tests, QC, Calibration.**



The screenshot displays the Dymind Biotech software interface. The top navigation bar includes tabs for Report, Review, Worklist, QC, Stats, Cal, Service, Setup, Log, Status, and Self-test. The main content area is divided into sections for Temperature, Voltage, Sensor, Counter, and Version. The Counter section is highlighted with a blue box and contains the following data:

Counter	Value	Details
Sample Count Times	0	Details
Background Count Times	2	QC Times 0, Details
Carryover Count	0	Calibration Times 0, Details
Repeatability Count	0	Aging Count 0
WBC clogging Count	0	RBC clogging Count 0
Laser Diode Lifetime (hr)	0.0 Hour	

On the right side, there is a 'Next Sample' section with the following information:

- Sample Count
- Sample ID 191-012
- Mode VWB
- CBC+DIFF

Below this section are several control buttons: Mode (FF), Add Diluent (water drop icon), Start (play icon), and STAT (plus icon). At the bottom center, there is an 'Initialization' button. The status bar at the bottom shows 'Current user: service', '中文(简体) - 美式键盘', and 'Tuesday 2015/09/29 15:15:03'.

Long reagent expiration date



Reagent	DIL-A	LYA- 1	LYA-2	LYA-3	Probe Cleanser
Shelf life	24 months	24 months	24 months	24 months	24 months
Open life	60 days	60 days	60 days	60 days	60 days

- ◆ **2 years expiration date for all reagents**
- ◆ **Long expiration date can save the cost for reagent storage**

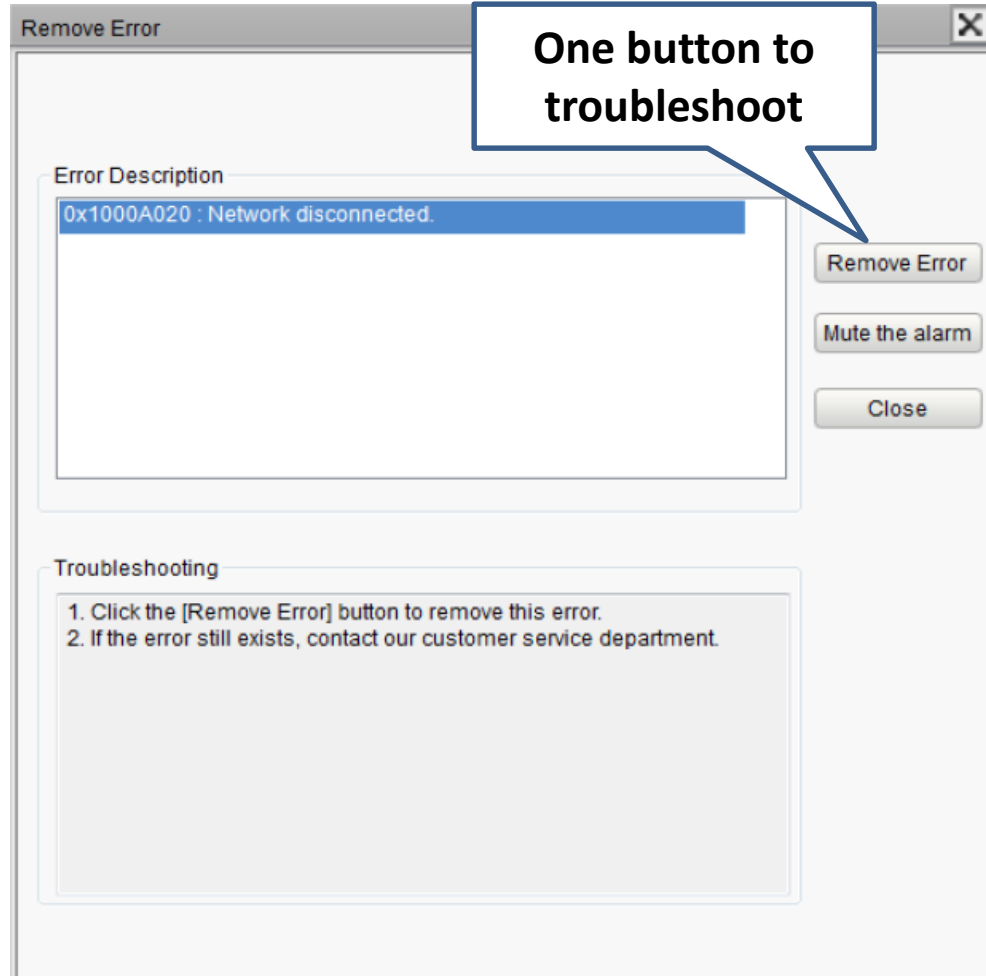
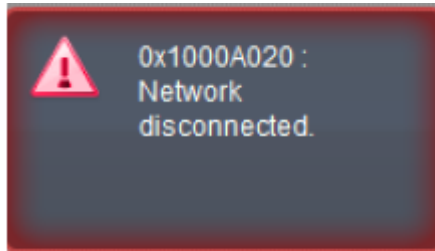
Easy operation and maintenance

- **One button to automatically sample count.**
- **Daily maintenance is performed simply by soaking of probe cleaner during shutdown.**



Easy troubleshooting

- One button to troubleshoot problem. (Intelligent Fault Diagnosis System)



Easy to install for engineer

- **Separate installation guide from Dymind service team.**
- **Designed to be easy for installation, calibrated from factory.**

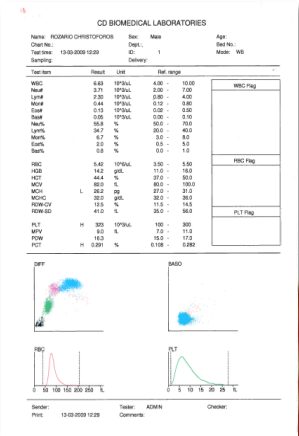
Content

Inst

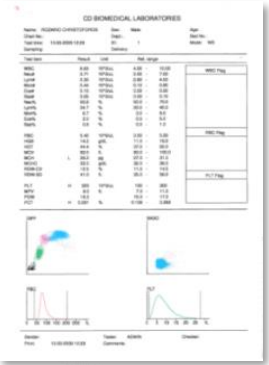


- 1 Preparation
- 2 Installation
- 3 Printer & LIS
- 4 Others

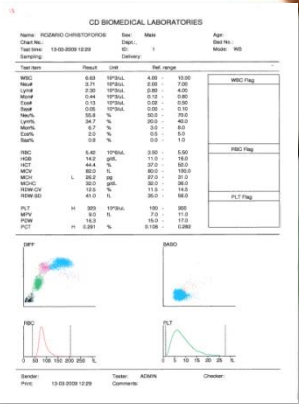
Better report



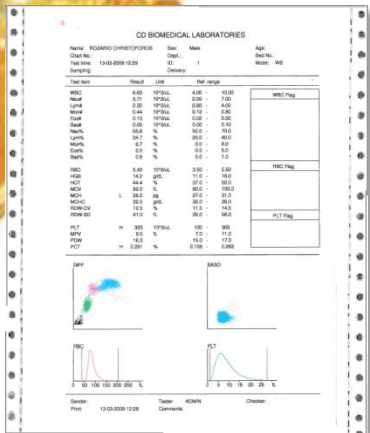
A4



A5



Letter



Continuous paper

◆ Report formats: multiple pre-defined formats & **DIY** formats

Powerful parameters

RBC
MCV
HCT
RDW-
SD
RDW-
CV
HGB
MCH
MCHC

8

PLT
MPV
PCT
PDW
PLCC
PLCR

6

WBC
LYM#
LYM%
MON#
MON
%
NEU#
NEU%
EOS#
EOS%
BAS#
BAS%

11

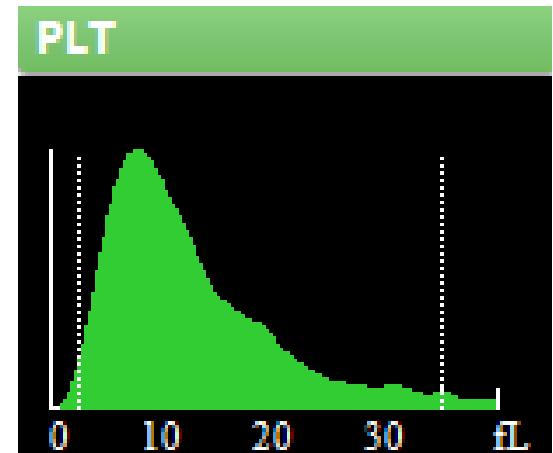
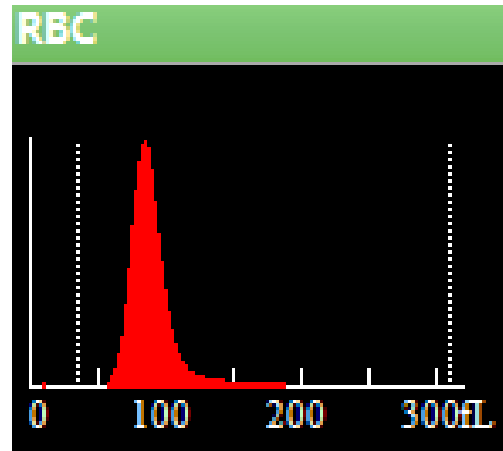
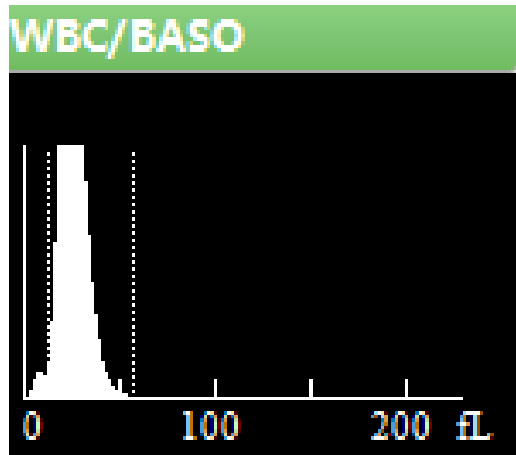
ALY#*
ALY%*
LIC#*
LIC%*

4

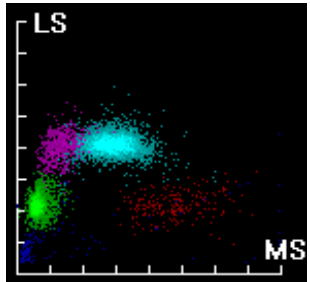


25 reportable parameters + **4** research parameters

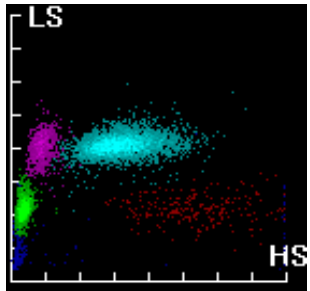
3 Histograms



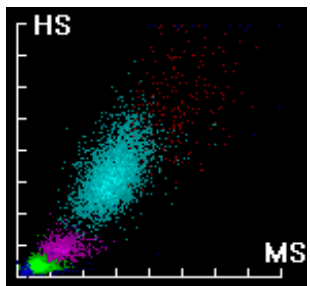
Scattergrams



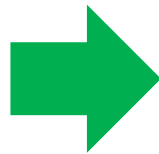
LS / MS



LS / HS

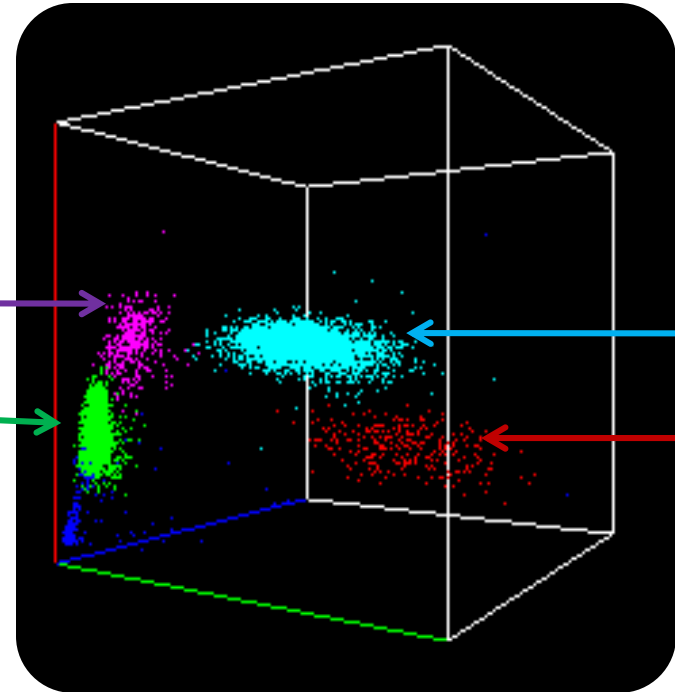


HS / MS



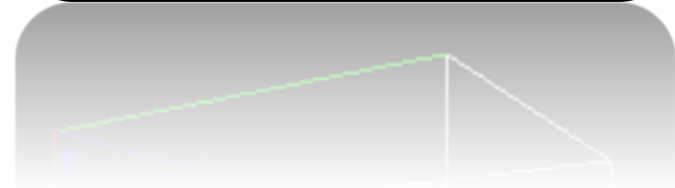
Mon

Lym



Neu

Eos



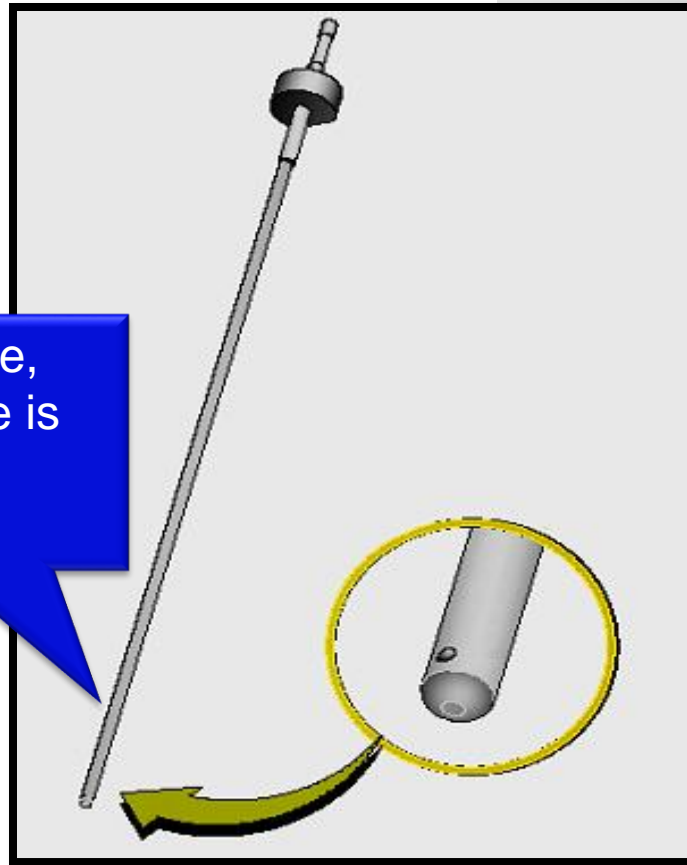
Imported high quality key component

RP Service Medical
S.r.l.

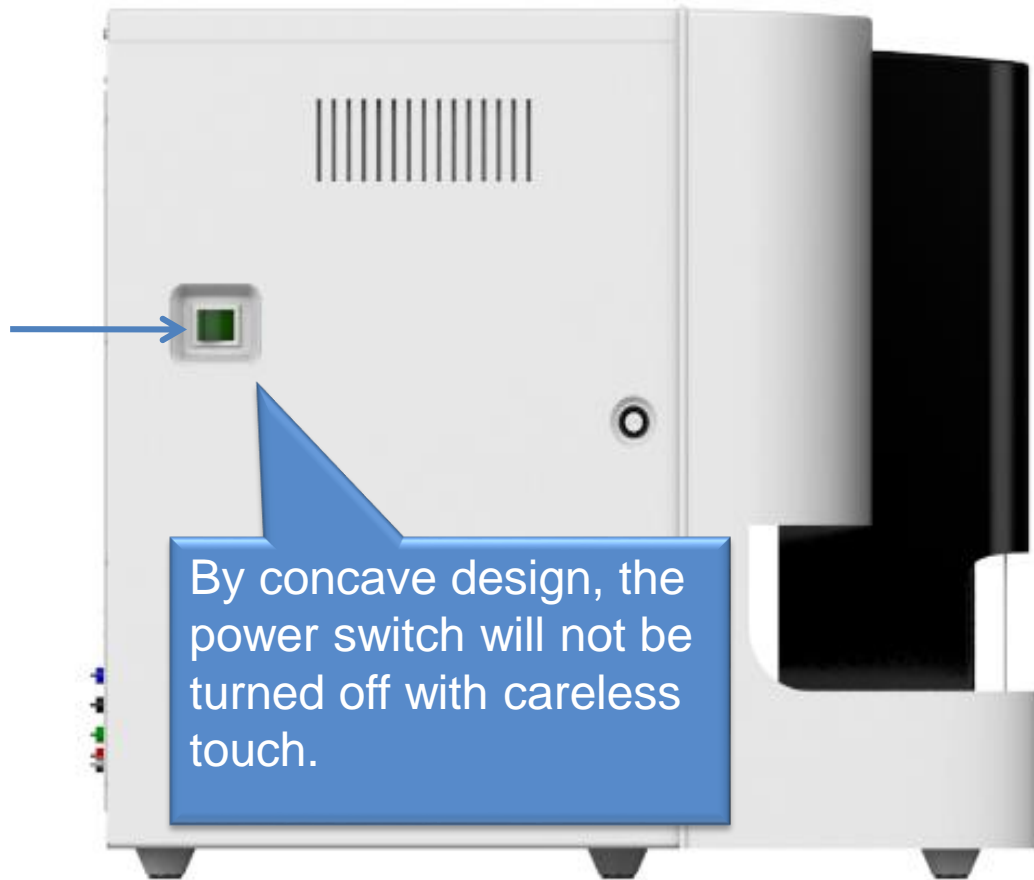
Sample probe anti-block design

Bottom is close,
aspiration hole is
on left side.

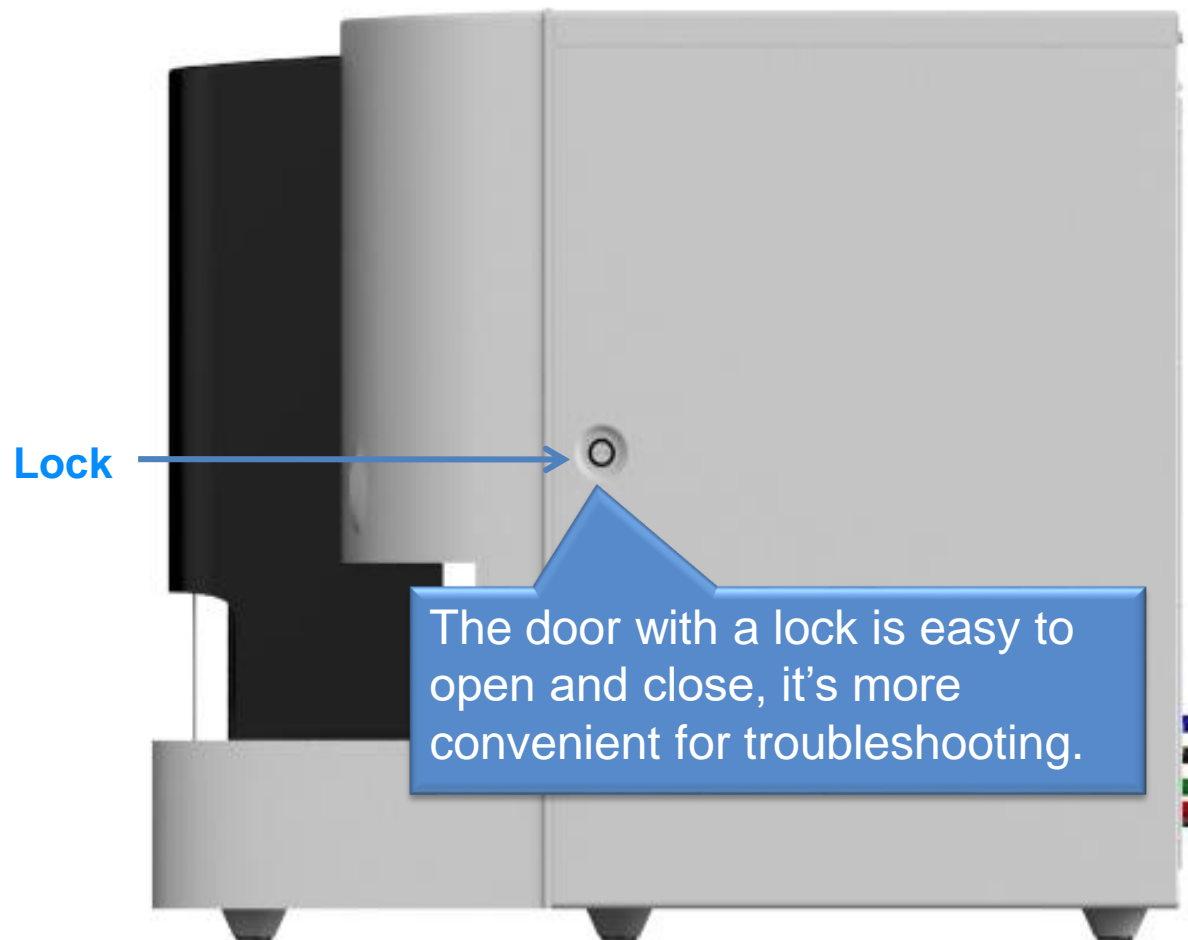


Concave switch design

Power
switch

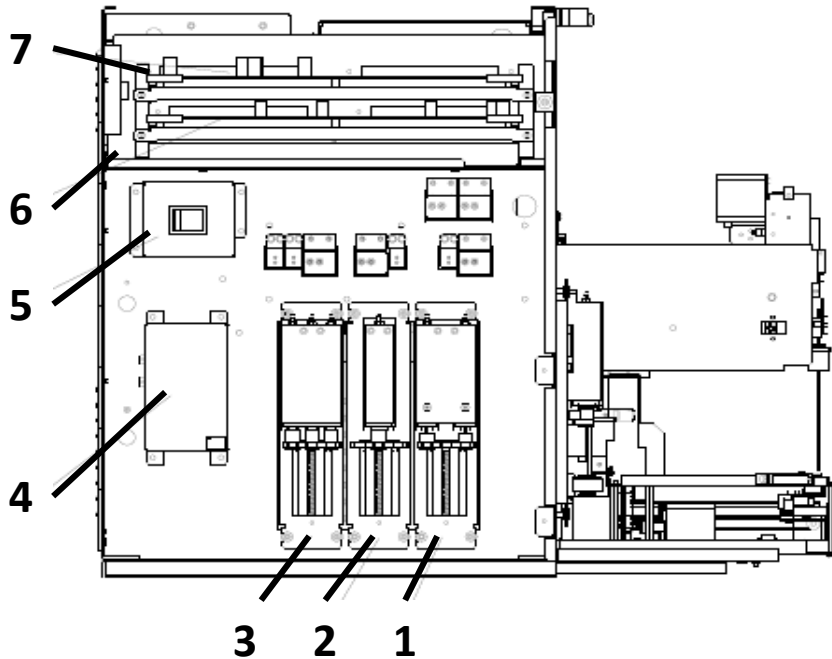


Lock and door design

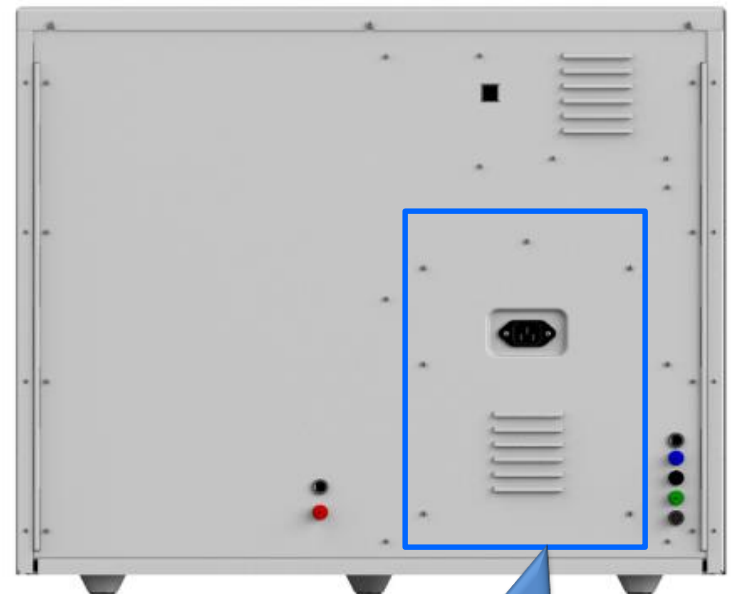


Liquid-electrical isolation

- Electrical part is on the top.
- Liquid part is below electrical part.
- Power supply & cables are inside analyzer.
- Main modules are on left and right clapboards, easy for replacement.

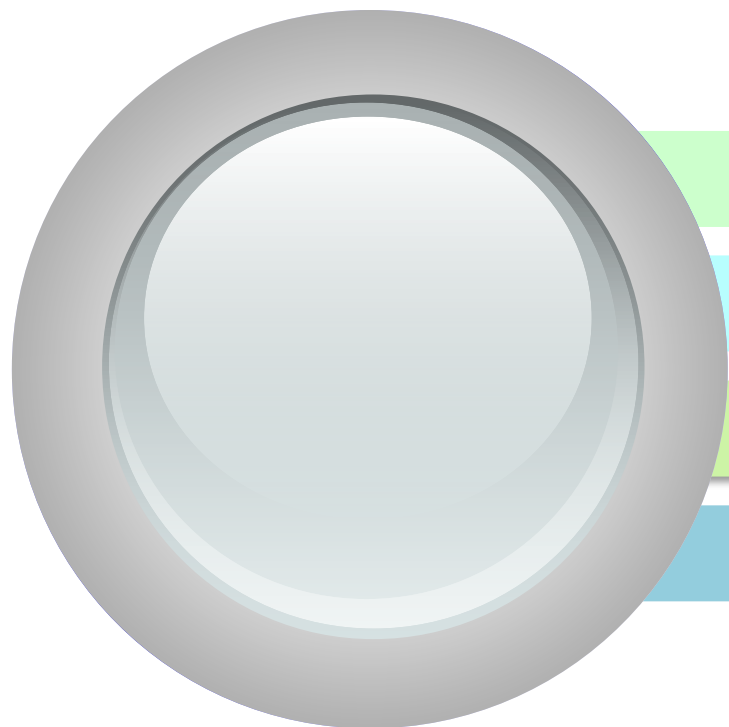


- 1-5: Liquid part;
- 6-7: Electrical part.



Power supply module

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Rigorous background requirements



<i>Parameter</i>	<i>Background</i>
<i>WBC</i>	$\leq 0.3 \times 10^9 / \text{L}$
<i>RBC</i>	$\leq 0.03 \times 10^{12} / \text{L}$
<i>HGB</i>	$\leq 1 \text{ g/L}$
<i>HCT</i>	$\leq 0.5\%$
<i>PLT</i>	$\leq 10 \times 10^9 / \text{L}$

Low carryover

<i>Parameter</i>	<i>Carryover</i>
<i>WBC</i>	$\leq 0.5\%$
<i>RBC</i>	$\leq 0.5\%$
<i>HGB</i>	$\leq 0.5\%$
<i>HCT</i>	$\leq 0.5\%$
<i>PLT</i>	$\leq 1.0\%$

Good precision - stable result

Parameter (testing range)	Whole blood precision (CV/absolute deviation d₅₀)	Pre-diluted precision (CV/absolute deviation d₅₀)
WBC (4 - 15.0 × 10⁹/L)	≤2.0%	≤4.0%
Neu% (50.0 - 60.0 %)	± 4.0 (Absolute deviation)	± 8.0 (Absolute deviation)
Lym% (25.0 - 35.0 %)	± 3.0 (Absolute deviation)	± 6.0 (Absolute deviation)
Mon% (5.0 - 10.0 %)	± 2.0 (Absolute deviation)	± 4.0 (Absolute deviation)
Eos% (2.0 - 5.0 %)	± 1.5 (Absolute deviation)	± 2.5 (Absolute deviation)
Bas% (0.5 - 1.5 %)	± 0.8 (Absolute deviation)	± 1.2 (Absolute deviation)
RBC (3.5 - 6.0 × 10¹² / L)	≤1.5%	≤3.0%
HGB (110 - 180 g/L)	≤1.5%	≤3.0%
MCV (70 - 120 fL)	≤1.0%	≤2.0%
PLT (150 - 500 × 10⁹ / L)	≤4.0%	≤8.0%

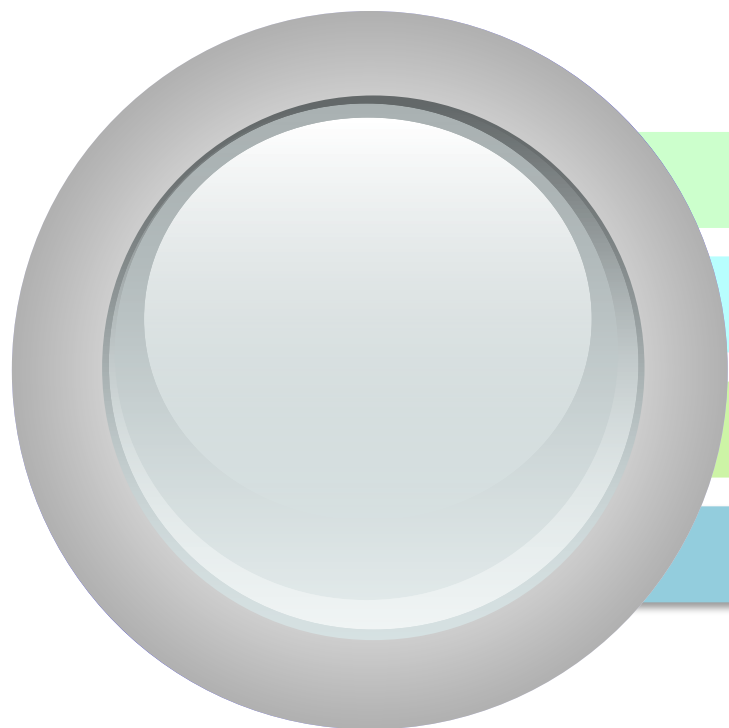
Wide linearity range

<i>Parameter</i>	<i>Linearity range</i>
<i>WBC</i>	$(0.00 \sim 300.00) \times 10^9/L$
<i>RBC</i>	$(0.00 \sim 8.50) \times 10^{12}/L$
<i>HGB</i>	0 ~ 250g/L
<i>PLT</i>	$0 \sim 3000 \times 10^9/L$
<i>HCT</i>	0 ~ 67%

Good correlation

<i>Parameter</i>	<i>a</i>	b	<i>r</i>
<i>WBC</i>	$0.97 \leq a \leq 1.03$	≤ 0.3	≥ 0.99
<i>RBC</i>	$0.97 \leq a \leq 1.03$	≤ 0.1	≥ 0.99
<i>HGB</i>	$0.97 \leq a \leq 1.03$	≤ 2	≥ 0.98
<i>MCV</i>	$0.97 \leq a \leq 1.03$	≤ 1.5	≥ 0.98
<i>PLT</i>	$0.97 \leq a \leq 1.03$	≤ 10	≥ 0.95

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