



**MIRALAB**  
Lab Equipment



# MIRACELL

Fully Automatic Hematology Analyzer

## Features

- WBC 3-differential, 24 parameters with 3 histograms
- Testing speed: 60 second Sample to report, two channels counting
- Only 14  $\mu$ l of blood sample
- Soak, back & forth flush, real time monitoring function of high pressure burning and automatic block-clearing
- 10.4" TFT LCD touch screen, supports high resolution of 800 x 600
- 40000 records storage (all parameters with histograms)
- Dual swirling flow and intelligent fitting technology to ensure reliable PLT counting
- Software can be updated through USB port
- Internal thermal printer (80mm paper width, printing speed of 5 sec./report)
- Multi-language user interface

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## Technical Specifications

<b>Parameters</b>	WBC 3-differential, 24 parameters with 3 histograms (WBC, LYM#, MID#, GRAN#, LYM%, MID%, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, PCT, RDW-CV, RDW-SD, MPV, PDW, P-LCR and WBC, P-LCC, RBC, PLT three histograms).	
<b>Principle</b>	Electronic impedance, SFT method for hemoglobin.	
<b>Working mode</b>	Automatic two channel counting, pre-diluted mode, no need for manual diluting	
<b>Sample volume</b>	Whole blood, 14 $\mu$ l, prediluted capillary blood 20 $\mu$ l.	
<b>Alarm</b>	Perfect alarm system make instrument attain optimal condition	
<b>Block-Clearing</b>	Soak and wash back and forth, real time monitoring function of high pressure burning and automatic block-clearing.	
<b>Storage</b>	Automatic storing 40000 samples with all parameters and 3 histograms. Combined search mode as per many conditions.	
<b>Control mode</b>	Management system for quality control, nine kinds of control files. SD, CV and Mean values are provided. Automatic drawing L-J graph. Provide matched blood control.	
<b>Calibration mode</b>	Three calibration modes: Manual, Calibrant and Blood.	
<b>Reference value setting</b>	Man, Woman, Children, Baby and General etc.	
<b>Performance</b>	<b>Repeatability</b>	<b>Linearity Range</b>
WBC	$\leq 2.0$ %	0.0~99.9X10 <sup>9</sup> /L
RBC	$\leq 1.5$ %	0.0~99.9X10 <sup>12</sup> /L
HGB	$\leq 1.5$ %	0~300g/L
MCV	$\leq 0.5$ %	40~150fL
PLT	$\leq 4.0$ %	0~999x10 <sup>9</sup> /L
<b>Carry Over</b>	RBC, WBC, HGB $\leq 0.5$ %, PLT $\leq 1.0$ %	
<b>Operating system</b>	Colorful windows interface, no need connecting computer Operating by graphic button with mouse, keyboard or touch screen.	
<b>Display</b>	Big size 10.4" TFT LCD with high resolution 800 x 600, all parameters and histograms displayed in the same screen.	
<b>Print mode</b>	Internal high-speed thermal printer. Optional USB connection supports several kinds of external printer. English printouts.	
<b>Reagent system</b>	Open reagent system. No cyanogens reagents. Provide original reagents.	
<b>Connection ports</b>	USB, RS-232, LAN.	
<b>Power</b>	Maximum 150VA	
<b>Operating environment</b>	Temperature 10 °C~30 °C	
<b>Relative: Humidity</b>	10%~90%	
<b>Power supply</b>	220V, 50Hz	
<b>Dimension</b>	(L x H x D): 368 mm x 448 mm x 475 mm	
<b>Weight</b>	23Kg	



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