

# 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.



*Smart Auto Hematology  
Analyzer Designed for Clinic*



## Excellent Experience

- Removing Blockage Intelligent.
- Timing monitoring the status of pin hole and automatically operating removal of blockage.



## Accurate Test Result

- Excellent algorithm, hardware and liquid circuit design to ensure the accuracy of PLT low value.



## Simple and Reliable

- The distinctive technology of laser scattering makes the analyzer simpler and more reliable.
- The analyzer adopts integrative, high precision and long-life injector module and stable maintenance-free sampling module, all for more durability and more worry-free.



## Small Size

- Save your spare. Integration built-in design of reagent cabinet can maximum hold 1L-DIFF lyse and 500ml-LH lyse in the same time.



## Ultra-low Cost of Operation

- The analyzer only needs three types of reagents, so the single test consumes less.



## Maintenance Intelligent

- Excellent algorithm, hardware and liquid circuit design to ensure the accuracy of PLT low value.

## Specifications

| Parameter | Precision                                   | Linear Range                     | Contamination Rate |
|-----------|---------------------------------------------|----------------------------------|--------------------|
| WBC       | $\leq 2.0\%$ ( $3.5-15.0 \times 10^9$ )/L   | ( $0-300.0 \times 10^9$ )/L      | $\leq 0.5\%$       |
| RBC       | $\leq 1.5\%$ ( $3.0-6.0 \times 10^{12}$ )/L | ( $0.10-8.00 \times 10^{12}$ )/L | $\leq 0.5\%$       |
| HGB       | $\leq 1.5\%$ (100-180) g/L                  | (0-250)g/L                       | $\leq 0.6\%$       |
| MCV       | $\leq 1.0\%$ (70-120)fL                     | —                                | —                  |
| PLT       | $\leq 4.0\%$ ( $150-500 \times 10^9$ )/L    | ( $0-4000 \times 10^9$ )/L       | $\leq 1.0\%$       |

|                       |                                                                                                                                                                                                                                                                                      |                                |                                                                                                     |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Power</b>          | Voltage: AC 100V~240V, 50/60Hz<br>Rated Power: 100~120VA                                                                                                                                                                                                                             | <b>Efficient</b>               | 60 samples/hour                                                                                     |
| <b>Sample Consume</b> | 1) Only need three reagents<br>2) Sample consumed $\leq 20\mu\text{L}$                                                                                                                                                                                                               | <b>Flag System</b>             | RBC, WBC, PLT abnormal sample and support customized test groups                                    |
| <b>Compatibility</b>  | 1) Two modes of sampling: Whole blood, pre-diluted blood<br>2) Three modes of test: CBC, CBC+5Diff and CBC+5Diff+RRBC<br>3) External printer or thermal printer<br>4) 4 USB, 1 LAN support protocol HL7 and compatible with LIS system<br>5) Accompanying quality control material   | <b>Storage</b>                 | Up to 50,000 results including histograms, scattergrams and patient information.                    |
| <b>Display</b>        | 1) 10.4" colorful touchscreen<br>2) Liquid Crystal Display<br>3) Resolution: 1024×768<br>4) 10° incline adapt to visual observation                                                                                                                                                  | <b>Quality Control</b>         | 3 Level QC, L-J graph, X-B                                                                          |
| <b>Parameters</b>     | Reportable Parameters (25 items)<br>WBC, LYM#, MON#, NEU#, EOS#, BAS#, LYM%, MON%, NEU%, EOS%, BAS%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC Research<br><br>Parameters (4 items)<br>ALY%, ALY#, IG%, IG#<br>2 histograms and 2 scattergrams | <b>Calibration</b>             | Manual and Auto-calibration                                                                         |
|                       |                                                                                                                                                                                                                                                                                      | <b>Accessories</b>             | Standard: keyboard, waste liquid barrel, ground wire(3m)<br>Option: mouse, external barcode scanner |
|                       |                                                                                                                                                                                                                                                                                      | <b>Dimension</b>               | 500mm(L)×320mm(W)×390mm(H)                                                                          |
|                       |                                                                                                                                                                                                                                                                                      | <b>Weight</b>                  | 25 Kg                                                                                               |
|                       |                                                                                                                                                                                                                                                                                      | <b>Operational Environment</b> | Working Temperature: 10°C~35°C<br>Relative Humidity: 20%~85%                                        |
|                       |                                                                                                                                                                                                                                                                                      | <b>Reagents</b>                | Build-in DIFF Lyse, LH Lyse, External Diluent, Probe Cleaner for maintenance                        |
|                       |                                                                                                                                                                                                                                                                                      | <b>Principle</b>               | Flow cytometry and multi-angular laser scattering, Electric impedance method and Colorimetry        |