

# Hematology Analyzer BH-HA310



### Features:

- ①. 9.7-inch color touch LCD screen, easy to operate, display all parameters and histograms on the same screen.
- ②. Fewer samples are required for testing: venous blood: 10 $\mu$ l, capillary: 10 $\mu$ l, prediluted: 20 $\mu$ l.
- ③. 60 samples/hour.
- ④. 21 parameters + 3 histograms.
- ⑤. It can be turned on continuously for 24 hours.
- ⑥. Automatically clean the sampler, counting pool and pipeline after starting up.
- ⑦. Built-in thermal printer, external printer can be connected.
- ⑧. Electrical impedance method, cyanide-free detection of HGB.
- ⑨. Fully intelligent blockage removal and alarm function.
- ⑩. Both automatic calibration and manual calibration are available.
- ⑪. Counting Mode: Venous, capillary, prediluted.
- ⑫. Support LIS system.

### Parameters:

| Model                | BH-HA310  |   |                            |                                  |        |                         |
|----------------------|---|---|----------------------------|----------------------------------|--------|-------------------------|
| Throughput           | 60 samples/hour   |   |                            |                                  |        |                         |
| Principle            | Impedance for WBC differentiation and WBC/RBC/PLT count; Colorimetric method for HGB  |   |                            |                                  |        |                         |
| Channels             | 2   |   |                            |                                  |        |                         |
| Parameters           | 21 parameters(including WBC, Mid#, Lym#, Gran#, Mid%, Lym%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR, P-LCC) |   |                            |                                  |        |                         |
| Histograms           | 3 histograms (including WBC, RBC, PLT histograms)   |   |                            |                                  |        |                         |
| Sample Volume        | Venous blood: 10 $\mu$ l, Capillary: 10 $\mu$ l, Prediluted: 20 $\mu$ l   |   |                            |                                  |        |                         |
| Calibration          | Manual, auto calibration  |   |                            |                                  |        |                         |
| Counting Modes       | Venous, capillary, prediluted   |   |                            |                                  |        |                         |
| Printing Model       | Auto print, manual print  |   |                            |                                  |        |                         |
| LIS                  | Support Bi-directional LIS  |   |                            |                                  |        |                         |
| Language             | Chinese, English, Spanish, French, Russian, Ukrainian   |   |                            |                                  |        |                         |
| Reagent              | Diluent 10L, Hemolytic agent 250ml, Probe cleanser: 50ml  |   |                            |                                  |        |                         |
| Data Input           | 9.7-inch touch screen, mouse, keyboard (optional)   |   |                            |                                  |        |                         |
| Output               | Internal printer, support external printer  |   |                            |                                  |        |                         |
| Printer paper        | 57*30mm   |   |                            |                                  |        |                         |
| Interface            | 4 USB ports, network port, RS232 serial port.   |   |                            |                                  |        |                         |
| Storage              | 100,000 results with histogram  |   |                            |                                  |        |                         |
| Unclog               | High voltage burn, reverse high-pressure flush  |   |                            |                                  |        |                         |
| Work Temperature     | 10~40°C   |   |                            |                                  |        |                         |
| Power Supply         | 100~240 AC, 50/60Hz, 150VA  |   |                            |                                  |        |                         |
| Relative Humidity    | ≤80%  |   |                            |                                  |        |                         |
| Atmospheric Pressure | 86.0kPa~106.0kPa  |   |                            |                                  |        |                         |
| Carry-over rate      | Parameter   | WBC   | RBC                        | HGB                              | PLT    |                         |
|                      | CV  | ≤ 1.5%  | ≤ 1%                       | ≤ 1%                             | ≤ 3%   |                         |
| Background           | Parameter   | WBC   | RBC                        | HGB                              | HCT    | PLT                     |
|                      | Background  | ≤ 0.5*10 <sup>9</sup> /L  | ≤ 0.05*10 <sup>12</sup> /L | ≤2 g/L                           | ≤ 0.5% | ≤ 10*10 <sup>9</sup> /L |
| Linearity            | Parameter   | Measurement range   |                            | CV                               |        |                         |
|                      | WBC   | (1.0~10.00*10 <sup>9</sup> )/L; (10.10~99.9*10 <sup>9</sup> )/L |                            | (±0.5*10 <sup>9</sup> )/L; ±5%   |        |                         |
|                      | RBC   | (0.3~1.00*10 <sup>12</sup> )/L; (1.01~7*10 <sup>12</sup> )/L    |                            | (±0.05*10 <sup>12</sup> )/L; ±5% |        |                         |
|                      | HGB   | (20~70)g/L; (71~200.0)g/L                                       |                            | (±2.0g)/L; ±3%                   |        |                         |
|                      | PLT   | (20~100*10 <sup>9</sup> )/L; (101~999*10 <sup>9</sup> )/L       |                            | (±10.0*10 <sup>9</sup> )/L; ±10% |        |                         |
| Precision            | Parameter   | Repeatability   |                            | Measurement range                |        |                         |
|                      | WBC   | ≤ 4.0%  |                            | (3.5~9.5*10 <sup>9</sup> )/L     |        |                         |
|                      | RBC   | ≤ 2.0%  |                            | (3.8~5.8*10 <sup>12</sup> )/L    |        |                         |
|                      | HGB   | ≤ 2.0%  |                            | (115~175)g/L                     |        |                         |
|                      | PLT   | ≤ 8.0%  |                            | (125-350*10 <sup>9</sup> )/L     |        |                         |
| HCT                  | ≤3.0%   |   | 35%~50%                    |                                  |        |                         |
| External Size(W*D*H) | 295*505*430mm   |   |                            |                                  |        |                         |
| Packed Size(W*D*H)   | Instrument: 404*564*616mm; Reagent: 340*340*340mm, 200*150*100mm  |   |                            |                                  |        |                         |
| Net weight           | 20kg  |   |                            |                                  |        |                         |
| Gross weight         | Instrument: 23kg; Reagent:13kg,1kg  |   |                            |                                  |        |                         |