



## H-7028 Fully Automatic 28 Parameter Hematology Analyzer (5 Diff.) (Less Service, More Stable)

### Measuring Principles

Fluorescence Flow Cytometry Technology/cytochemical flow cytometry using  
 Semi-Conductor LASER and Dye Reagents for WBC and 5 Differential for WBC.  
 Hydrodynamic Focus/impedance/optical focus flow detection method for RBC & PLT Analysis.  
 Cyanide free SLS/Photometric – Hemoglobin method for HGB measurement.  
 Measuring Principles LIC

The H-7021 offers 3 differential tests, while the H-7028 offers 5 differential tests.  
 The H-7028 offers several additional tests, including:

- NEUT (#): Neutrophil Count
- NEUT (%): Neutrophil Ratio,
- LYMPH (#): Lymphocyte Count,
- LYMPH (%): Lymphocyte Ratio
- MXD (#): Eosinophil, Basophil and Monocyte Count
- MXD (%): Eosinophil, Basophil and Monocyte Ratio
- RDW-SD: Red Blood Cell Distribution Width - Standard Deviation
- RDW-CV: Red Blood Cell Distribution Width - Corpuscular Volume

### Parameters

28 parameters +3 histograms + 1 scattergram

- |  |                               |  |                                       |
|--|-------------------------------|--|---------------------------------------|
| NEUT (#): Neutrophil Count                                     | NEUT (%): Neutrophil Ratio    | LYMPH (#): Lymphocyte Count                                  | LYMPH (%): Lymphocyte Ratio           |
| MXD (#): Eosinophil, Basophil and Monocyte Count               |                               | MXD (%): Eosinophil, Basophil and Monocyte Ratio             |                                       |
| RDW-SD: Red Blood Cell Distribution Width - Standard Deviation |                               | RDW-CV: Red Blood Cell Distribution Width-Corpuscular Volume |                                       |
| WBC (#): White Blood Cell Count                                | RBC (#): Red Blood Cell Count | MONO (#): Monocyte Count                                     | MONO (%): Monocyte Ratio              |
| GR (#): Granulocyte count                                      | GR (%): Granulocyte Ratio     | HGB (#): Hemoglobin Count                                    | HGB DW: Hemoglobin Distribution Width |
| MCH: Mean Corpuscular Hemoglobin                               |                               | MCHC: Mean Corpuscular Hemoglobin Concentration              |                                       |
| MCV: Mean Corpuscular Volume                                   |                               | HCT (#): Hematocrit Count                                    | PLT (#): Platelet Count               |
| PCT: Prolactin Count   | MPV: Mean Platelet Volume     | PDW: Platelet Distribution Width                             | RTC: Reticulocyte Count               |
| WBC Histograms: White Blood Cell Histograms                    |                               | RBC Histograms: Red Blood Cell Histograms                    |                                       |
| PLT Histograms: Platelet Histograms                            |                               | Baso Histograms: Basophil Histograms                         |                                       |
| WBC (White Blood Cell) Differential Scattergram                |                               | NEUT (#): Neutrophil Count                                   | NEUT (%): Neutrophil Ratio            |
| BASO (#): Basophil Count                                       | BASO (%): Basophil Ratio      | EOS (#): Eosophil Count                                      | EOS (%): Eosophil Ratio               |
| P-LCR (#): Platelet Large Cell Ratio                           |                               |  |                                       |
| ALY (#): Atypical Lymphocyte Count                             |                               | ALY (%): Atypical Lymphocyte Ratio                           |                                       |
| LIC (#): Limiting Isorrheic Concentration Count                |                               | LIC (%): Limiting Isorrheic Concentration Ratio              |                                       |

These extra parameters are available on the H-7028 and not on the H-7021:  
 (NEU#, NEU%, BAS#, BAS%, EOS#, EOS%, RDW-SD, RDW-CV, P-LCR, ALY#, ALY%, LIC#, LIC%,  
 BASO, RSC Histogram)

- |                           |   |
|---------------------------|---|
| <b>Sample Volume:</b>     | Min 20uL EDTA Whole Blood   |
| <b>Throughput (T/hr):</b> | 60 samples per hour or above  |
| <b>Operating System:</b>  | Windows 7 or later  |
| <b>PC Hardware:</b>       | Must be purchased separately (Labomed, Inc. does not sell it)   |
| <b>RAM:</b>               | ≥ 1GB, HDD: 160 GB SATA   |
| <b>Display:</b>           | ≥ 17" LCD Color Monitor   |
| <b>Data Storage:</b>      | Min 10,000 test about patients  |
| <b>Discrete Mode:</b>     | CBC Mode CBC+DIFF Mode  |
| <b>Power Supply:</b>      | 230V AC, 400W, 50Hz, locally compatible mains plug, set of replacement fuses (if replaceable type used) |
| <b>Dimensions:</b>        | 400 x 420 x 490mm   |
| <b>Weight:</b>            | 25kg  |

### Accessories

- UPS: Appropriate true online UPS with 1 hour back up (Optional)
- Roller Mixer for Homogenous mixing of Blood - one (Optional)
- One set Startup Reagents (Optional)
- Reagents for 5000 test at user end (Optional)