



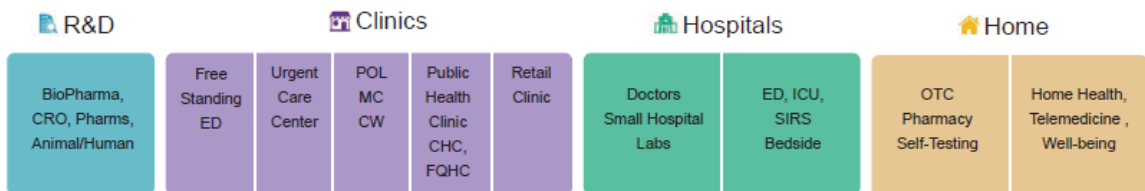
iMOST U Hematology Analyzer

iMOST U Hematology Analyzer is a lightweight, compact, and portable automated quantitative blood cell analyzer that combines innovative micro-nano technology with biochemistry and computer vision for blood analysis. This product is intended for the in vitro quantitative detection of hemoglobin concentration, red blood cell count, white blood cell count, platelet count, mean corpuscular volume (MCV), hematocrit (HCT), mean corpuscular hemoglobin (MCH), mean corpuscular hemoglobin concentration (MCHC), red cell distribution width (RDW), leukocyte differential including neutrophil percentage, lymphocyte percentage, monocyte percentage, eosinophil percentage, basophil percentage, as well as absolute counts of neutrophils, lymphocytes, monocytes, eosinophils, and basophils in human capillary or venous whole blood. The iMOST system includes the iMOST U analyzer, the disposable test cards (Q-Card), and related accessories.

The test cartridge Q-Card is a biochip which contains the required reagents to run the defined test which can accept a blood or control sample. The test cartridge will interface simply and seamlessly with the instrument such that the operator's technical requirements to conduct the test are minimal.

Intended Use

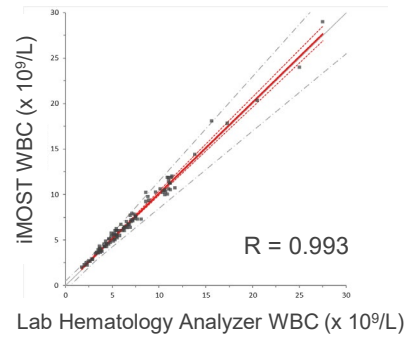
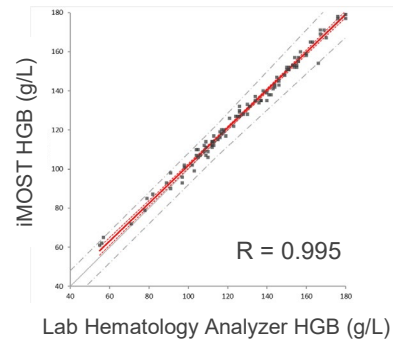
iMOST-U is intended for use in community clinics, hospital emergency departments, inpatient wards, health centers, testing centers, point-of-care settings, and similar settings.



Specifications

Test Parameters	Hemoglobin (HGB), White Blood Cell Count (WBC), Red Blood Cell Count (RBC), Platelet Count (PLT), MCV, HCT, MCHC, MCH, RDW White Blood Cell 5-Part Differential: NEU#, NEU%, LYM#, LYM%, MON#, MON%, EOS#, EOS%, BAS#, BAS%
Testing Range	Hemoglobin (HGB): 50 - 200 g/L White blood cell count (WBC): 1 - 30 × 10 ⁹ /L Platelet count (PLT): 50 - 800 × 10 ⁹ /L Red blood cell count (RBC): 1.50 – 6.50 × 10 ¹² /L
Measuring Time	4 – 5 minutes
Testing Sample	Venous and capillary blood K ₂ EDTA anticoagulant
Sample Volume	10 microliters (10 µL)
Instrument Dimensions	Analyzer: 220 mm x 110 mm x 80 mm Q-Card: 24 mm x 32 mm x 1.2 mm
Weight	Analyzer: 997 g
Operating Conditions	Operating environment temperature: +15°C to +30°C* Operating relative humidity environment: up to 80% RH Operating altitude: can operate at altitudes up to 2000m above sea level (* iMOST continues to improve its performance across a broader temperature.)
Calibration	Factory-calibrated; needs no further calibration
Quality Control	Built-in self-check; optional liquid controls

iMOST U vs Lab Hematology Analyzer*



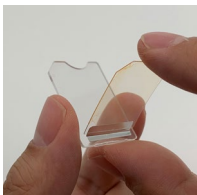
* Clinical study with 100+ patients' samples
* Lab Hematology Analyzer as Sysmex XN or Horiba Pentra

Technology

- Innovative combination of nanotechnology, machine learning / AI and new bio/assay process.
- Fault tolerant for improving accuracy and reliability.
- A platform to test several assays in one Q-Card for many sample types.
- Applications in hematology, pathology, chemical test, immunoassay.

Usage Steps

Open Q-Card



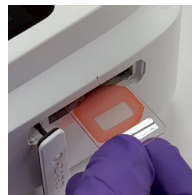
Put on Presser



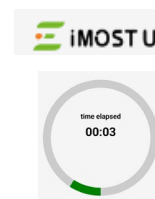
Add Sample & Close Q-Card



Insert to Analyzer



Test



Get Results

Item	Result	Unit	Reference
Hemoglobin (HGB)	130.8	g/L	115.0-150.0
White Blood Cell Count	6.96	10 ⁹ /L	5.0-9.5
Neutrophil percent (NEU%)	48.2	%	40.0-70.0
Lymphocyte percent (LYM%)	36.6	%	20.0-50.0
Monocyte percent (MO%)	13.6*	%	3.0-10.0
Eosinophil percent (EOS%)	1.7	%	0.4-0.8
Basophil percent (BAS%)	0.4	%	0.0-1.0
Neutrophil Count (NEUC)	2.96	10 ⁹ /L	1.6-6.3
Lymphocyte Count (LYMC)	2.10	10 ⁹ /L	1.1-3.2
Monocyte Count (MOC)	0.95	10 ⁹ /L	0.1-0.8
Eosinophil Count (EOC)	0.16	10 ⁹ /L	0.00-0.50
Basophil Count (BASC)	0.00	10 ⁹ /L	0.0-0.08