

Technical Specifications

Principle

Tri-angle laser scattering, flow cytometry for WBC differentiation and counting
Impedance for RBC and PLT counting
Cyanide-free method for HGB

Parameters

25 parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
4 research parameters: LIC%, LIC#, ALY%, ALY#
2 histograms for RBC and PLT
4 scattergrams for WBC differential

Throughput

60 samples per hour

Calibration

Manual and Auto-calibration

Quality control

3 level QC,
LJ graph, XB

Sample volume

CBC+ Diff mode: 20µL
Prediluted mode: 20µL

Reagents

3 Reagent (2 Lyse + 1 Diluent)
1 PB cleanser for maintenance

Performance

Parameters	Precision (CV)
WBC	≤ 2.0% (4.0-15.0×10 ⁹)/L
RBC	≤ 1.5% (3.5- 6.0×10 ¹²)/L
HGB	≤ 1.5% (110.0 - 180.0g)/L
MCV	≤ 1.0% (70.0 - 120.0) fL
PLT	≤ 4.0% (150.0- 500.0×10 ⁹)/L

Printout

Built-in thermal printer, support external printer

Sampling mode

Open mode, built-in barcode scanner

Maintenance

Auto-cleaning of sample probe and tubes

Temperature

10°C -30°C

Interface

4 USB ports, 1 LAN port
HL7 protocol, support LIS

Blockage clear

High voltage, high pressure flush

Power

AC 100-240V, 50/60±1Hz

Dimension

L430mm×W350mm×H435mm

Display

10.4-inch color touch screen
Liquid Crystal Display (LCD)
Resolution: 800×600

Storage

60,000 sample results with scattergrams and histograms

Parameters	Linearity range
WBC	(0-100.0×10 ⁹)/L
RBC	(0-8.00×10 ¹³)/L
HGB	(0-250)g/L
PLT	(0-1000×10 ⁹)/L



CE

KT 6610
5-Part Auto Hematology Analyzer



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Version 2.0

Genrui

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Management System
EN ISO 13485:2012
ISO 9001:2008



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Advanced Technology

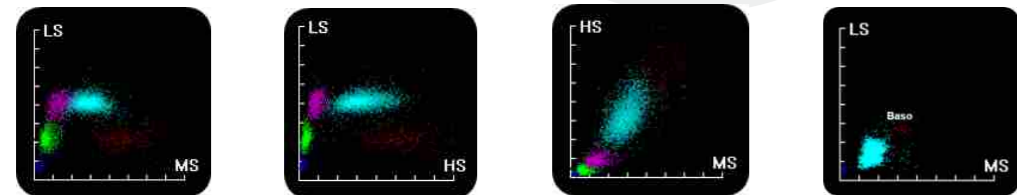
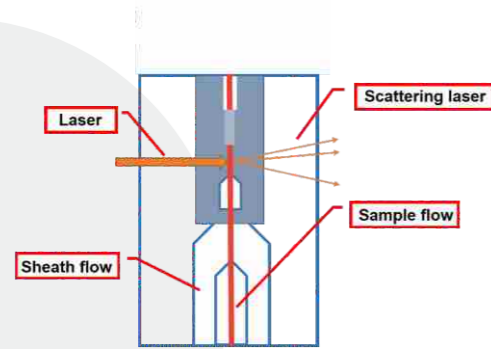
▶ Latest innovation Tri-angle laser scattering and flow cytometry

KT-6610 is a real 5-Part auto hematology analyzer. It uses 3 reagents to differentiate and count blood cells.

Diff lyse is added to differentiate 4 kinds of WBC(Lym, Mon, Neu and Eos), LH lyse is used to differentiate Bas and count WBC amount. Besides, there is a dedicated channel for Bas differentiation.

Surrounded with sheath fluid(diluent), blood cells pass through the center of the flow cell one by one at high speed.

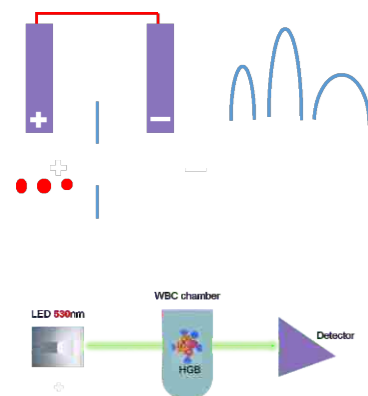
The tri-angle laser scattering contributes to more accurate counting. When passing through the flow cell, blood cells are exposed to a laser beam. The intensity of scatter light reflects the blood cell size and intracellular density. The optical detector receives scatter light signals and converts them into electrical pulses. Pulse data is collected to generate a scattergram.



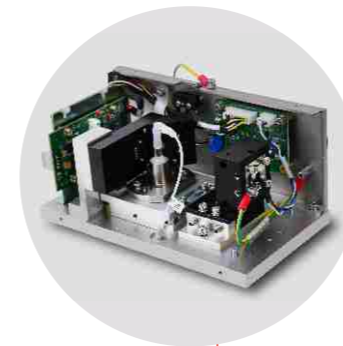
▶ Proven technology Impedance and colorimetric

The count principle of the instrument is based on the measurement of changes in electrical resistance produced by a blood cell passing through an aperture sensor. Passing through the magnification circuit, the voltage signal will be magnified, which will be derived into impulses, and then analytical histogram will be generated.

Adding lyse in the blood, the red blood cell will rapidly be broken down and release hemoglobin. Hemoglobin and lyse form a new mixture, which can absorb the wavelength of 530nm. Measure the absorbency. Through comparison of the absorbency between the pure diluent and the sample, the concentration of the sample hemoglobin is calculated.



Compact Yet Powerful



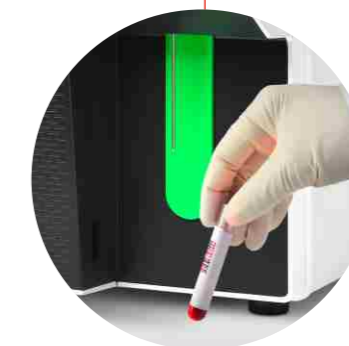
- ▶ **Reliable hardware, accurate results**
 - Long life semi-conductor laser to differentiate WBC into 5 parts
 - Ceramic syringe to assure precise reagent or sample aspiration
 - Famous liquid parts (SMC valves and KNF pump) and simplified liquid system



- ▶ **Convenient printout solution**
 - Built-in thermal printer
 - Support external printer through USB
 - Editable print template



- ▶ **Cost-effective**
 - 3 reagents (2 Lyse, 1 Diluent) only, less consumption
 - Lyses placed inside for space saving

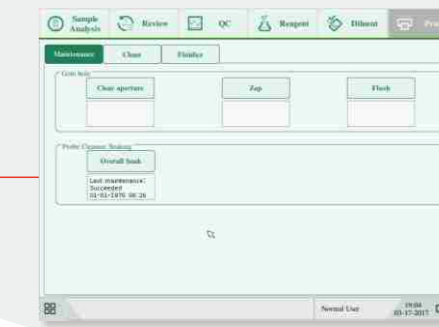


- ▶ **Built-in barcode scanner**
 - Input patient data automatically
 - Easy management for reagents

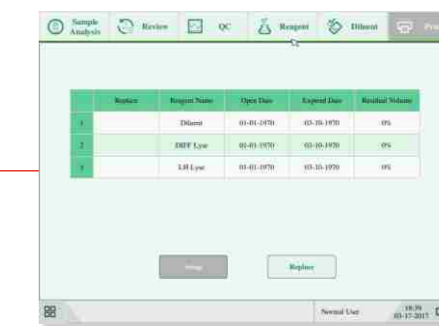
User-friendly



- ▶ **Powerful data management**
 - Flag information offered for better diagnosis
 - Store 60,000 results, easy data transmission
 - 6 short-cut icons, more efficient



- ▶ **Real-time monitoring**
 - Automatically monitor reagent status
 - Including residual volume and expired date
 - Strictly monitor temperature, voltage, pressure and current



- ▶ **Smart maintenance**
 - Easy routine maintenance
 - Hardware self-checking
 - One-click for basic trouble shooting

— IDEAL TO BE YOUR FIRST 5-PART HEMATOLOGY ANALYZER! —