

ERVIN DANESH AZMA



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KX-21

Technology for Simplicity

*A Compact
Fully-Automated Hematology Analyzer...
Simply Meets Your Needs*



اروین دانش آزما

Ervin Danesh Azma

خدمات خوب یک اتفاق نیست ✓

Specifications

Principles: WBC, RBC and PLT : Electrical Resistance detection

HGB : SLS Hemaglobin

HCT : Cumulative Pulse Height Detection

Parameters: 18 Parameters

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT,

LYM%, MXD%, NEUT%, LYM#, MXD#, NEUT#,

RDW-SD, PDW[†] MPV, P-LCR[†]

Throughput: Approx. 60 Samples / Hour

Sample Volume : Whole Blood mode - 50 μ l

Predilute mode - 20 μ l

Precision : Parameter Whole Blood Mode

WBC 3.5% or lower

RBC 2.0% or lower

HGB 1.5% or lower

HCT 2.0% or lower

PLT 6.0% or lower

Linearity:

WBC 1.0 - 99.9 $\times 10^3/\mu$ l (within $\pm 0.3 \times 10^3/\mu$ l or $\pm 3\%$)

RBC 0.30 - 7.00 $\times 10^6/\mu$ l (within $\pm 0.3 \times 10^6/\mu$ l or $\pm 3\%$)

HGB 0.1 - 25.0 g/dl (within ± 0.2 g/dl or $\pm 2\%$)

HCT 10.00 - 60.0% HCT% (within ± 1.0 HCT% or $\pm 3\%$)

PLT 10 - 999 $\times 10^3/\mu$ l (within $\pm 10 \times 10^3/\mu$ l or $\pm 5\%$)

(When RBC < 7.00 $\times 10^6/\mu$ l)

Data Storage: 240 patient results

Interfaces: Serial port for host computer (optional)

Built-in Thermal Printer : 5 x 7 dots, 21 characters per line (128 dots / line)

Dimensions : Approx. 420 x 480 x 355

W x H x D (mm)

Weight (kg) : Approx. 28

Power Consumption : 230 VA or less

Automated Hematology Analyzer

KX-21



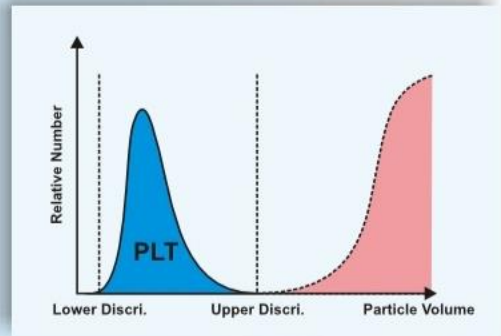
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Simplicity in Quality Management

- Highly accurate detection technology including precise **Sample Rotor Valve (SRV)**.
- Optimal cell size discrimination using **floating discriminators** for WBC (tri-modal curve) RBC & PLTs.
- Monitoring and flagging functions for reliable reporting.
- Built-in QC programs : \bar{X} and L - J Plot.
- Long calibration stability.
- Unique Internal & International Quality Control Support from Sysmex Transasia



Simplicity in Maintenance

- Automatic start-up, electronic self-checking, rinsing and background count check.
- Automatic alarm for maintenance.
- Easy to use, pre-programmed, software-driven maintenance sequences.
- Sturdy hydraulics eliminate periodic replacement of any parts.

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- 1 : Stored Data
- 2 : Quality Control
- 3 : Calibration
- 4 : Replace Reagent
- 5 : Auto Rinse
- 6 : Settings
- 7 : Maintenance
- 8 : Periph. Settings



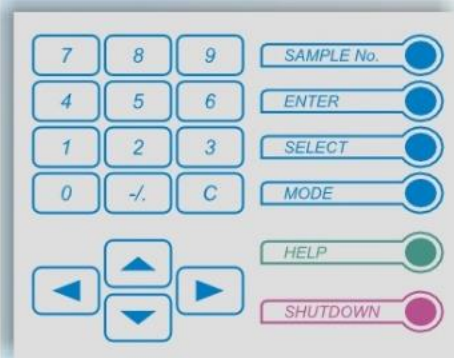
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Simplicity in Operation

- Fully automated hematology analyser with 18 parameters, 3 part differential count.
- Single button start-switch to aspirate blood sample.
- Auto probe wiping facility for operator safety.
- Built in printer.
- Large screen to display all the parameters alongwith 3 histograms for WBC, RBC & PLT.

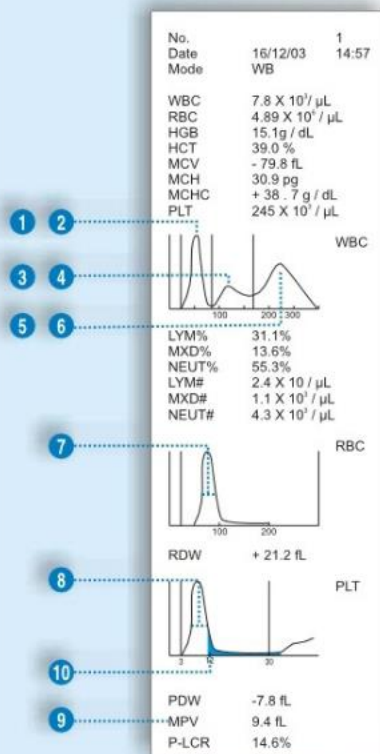


Simplicity for Multiparameter Analysis

- Data for 18 parameters, plus 3 histograms for WBC, RBC and PLT's.
- Sample requirements are , only 50 μl for 18 parameters in whole blood mode & 20 μl in predilute mode.
- Option to have RDW in the form of S.D. or C.V. for accurate screening of anisocytosis in RBCs.
- Extended linearity for all the parameters.
- Data storage of 240 patient results

10 Analytical Parameters obtained with the KX-21

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|----|--------|---------|-----------------------------------|
| 1 | LYM% | (W-SCR) | (WBC - Small Cell Ratio) |
| 2 | LYM# | (W-SCC) | (WBC - Small Cell Count) |
| 3 | MXD% | (W-MCR) | (WBC - Middle Cell Ratio) |
| 4 | MXD# | (W-MCC) | (WBC - Middle Cell Count) |
| 5 | NEUT% | (W-LCR) | (WBC - Large Cell Ratio) |
| 6 | NEUT# | (W-LCC) | (WBC - Large Cell Count) |
| 7 | RDW-SD | or-CV | (RBC Distribution Width SD or CV) |
| 8 | PDW | | (PLT - Distribution Width) |
| 9 | MPV | | (Mean Platelet Volume) |
| 10 | P-LCR | | (PLT - Large Cell Ratio) |



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