

Technical Specifications

Parameters	20 parameters, including 3-part WBC differential: WBC, LYM#, MID#, GRA#, LYM%, MID%, GRA%, RBC, MCV, HCT, HGB, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-CV, PDW-SD
Measuring principle	Volumetric impedance method
Throughput	60 tests/hour
Sample volume	25 µl of whole blood
Sampling method	Open tube + available with cap-pierce feature
Sample profiles	Human (male, female, child, toddler, baby)
Reagents*	Isotonic Diluent, Lyse, Cleaner
Calibration	Manual or automatic
Quality Control	6 QC lots, Levey-Jennings diagrams
User interface	Easy-to-use, menu driven user interface with 6 software buttons (with icons), 6 hardware function buttons, cursor and numeric keys on a color LCD
User languages	Multilingual user interface
Software upgrade	USB memory stick
Data storage capacity	Max. 10 000 records including histograms
Printout	"Easy Paper Operation" thermal printer, 56 mm wide roll paper (optional)
External keyboard	PS/2 or USB
Bar code reader	Optional
Interfacing capabilities	RS232 or USB
Multi-user mode	3 user levels
Size (WxDxH)	350 × 490 × 385 mm
Weight	15 kg
Operating environment	Temperature: 15-35°C. Relative humidity: max 80% (non-condensing)

*Usage of original Diatron reagents is recommended. Full specifications are available on request or can be obtained from www.diatron.com (select "products").

Reagents

We offer hematology systems of two interlocking components: analyzers and reagents. Diatron hematology analyzers show the best performance with the original reagents developed and made by Diatron. All our reagents are cyanide-free and have extended shelf life.

Reagents for Abacus 3

Type	Name	Code	Pack Size
Isotonic Diluent	DiatroDil Diff	D1012	20 L
Hemolysing Agent	DiatroLyse Diff	D2011	1 L
Cleaner	Diatro Cleaner	D5011	1 L
Cleaner	Diatro Cleaner	D5015	5 L



Diatro-Lyse-Diff

Diatro Cleaner

Diatro Diluent

Diatron reserves the right to change any of the specifications without prior notice.

Your distributor:



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Innovative Solutions in Hematology

Abacus 3

Abacus 3

Abacus 3 is a **heavy duty compact hematology analyzer** offering an optimal solution for hospitals, clinics and physician practices, which require high quality and **fast CBC results**.

Available with Cap-Pierce feature for closed tube sampling



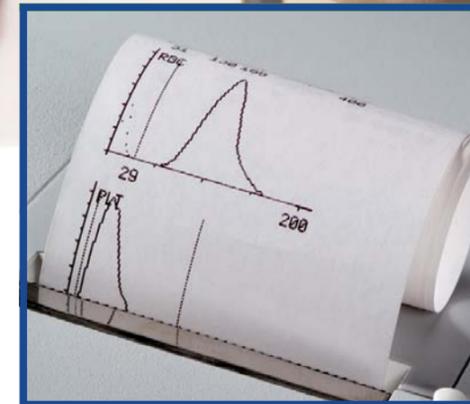
High performance

- Abacus 3 provides **20-parameters**, complete blood count including 3-part WBC differential.
- **60 samples per hour** throughput.
- The large **color LCD** allows **rapid** and accurate **patient data entry** and monitoring of the results with large histograms.



Ease of use

- The Diatron-specific sample rotor guarantees safe and **easy sampling**.
 - The instrument features a sophisticated but **easy-to-use**, logically constructed **multilingual operating menu**.
 - Abacus 3 can be interfaced with your host computer, via USB or RS232 port, for further processing of the measured data.
 - Results can also be retrieved on the **built-in printer**.
 - The fluidic system is **automatically cleaned** from dust particles when turning on the analyzer. **High voltage pulses** after each measuring cycle keep the **apertures free from clogging**.
- The instrument automatically cleans the sampling tip inside and outside after blood aspiration to minimize the risk of carryover and infection.



Reliable and efficient

- Abacus 3 is **small and light**. Its compact size makes the instrument ideal for use also in smaller clinics with limited desktop space.
- It provides **6-level QC**, L-J graphs and self-diagnostic functions to let you monitor reliability and accuracy.

