

Specifications of Abacus junior & Abacus junior vet

Sample volume:	25 µl whole blood (50 µl in pre-diluted mode)
Aperture diameter:	80 µm
Measured parameters:	18 parameters, including 3-part WBC differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, HCT, MCV, RDW, HGB, MCH, MCHC, PLT, PCT, MPV, PDW
Throughput:	Human model: 27 tests/hour Vet model: 22 tests/hour (average)
Sampling method:	Open tube system with automatic sample rotor
Sample types:	Human model: Human (general), Male, Female, Baby, Toddler and Child Vet model: Dog, Cat, Horse, and 24 user-defined species
Fault statistics:	RBC/WBC clogging < 1% of analyses (normal use)
Clog prevention:	High-voltage pulse and chemical cleaning of the aperture in each analysis cycle using Cleaner reagent
Quality control:	6 levels, including: mean, ± range, SD and CV for all measured and calculated parameters, 16- and 64-day Levey-Jennings charts, separate QC database
Calibration:	Automatic, or manual calibration of WBC, HGB, RBC, PLT, MCV, RDW, MPV
Multi-user feature:	3-level multi-user operation with user identification by ID and password
User interface:	Easy-to-use, menu driven user interface with 6 software buttons (with icons), 6 hardware function buttons, cursor and numeric keys
Languages available:	Chinese, English, French, German, Greek, Hungarian, Indonesian, Italian, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Turkish, Vietnamese (more can be added upon request)
Data storing capacity:	1000 (2000/10000 optional) results, including histograms
Host computer interface:	Serial (RS-232) computer link
Data back-up Interface:	3.5" floppy disk
Software upgrade:	3.5" floppy disk or slim CD-ROM (optional)
Printer interface:	Centronics (parallel) or USB (optional)
Optional built-in printer:	"Easy Paper Operation" thermal printer (optional)
Display:	240×128 dots high-contrast, backlit, graphic LCD
Keypad:	29 foil keys + START button
External keyboard:	Standard PS/2 compatible keyboard (optional)
Power supply:	Universal, external 12VDC, 6A power module
Power supply (input):	100-120 or 200-240V, 50-60Hz, auto-ranging type 10W stand by, 72W max. operating power
Operating temperature:	15-35°C
Dimensions (W×D×H):	320×260×365 mm
Net weight:	12 kg

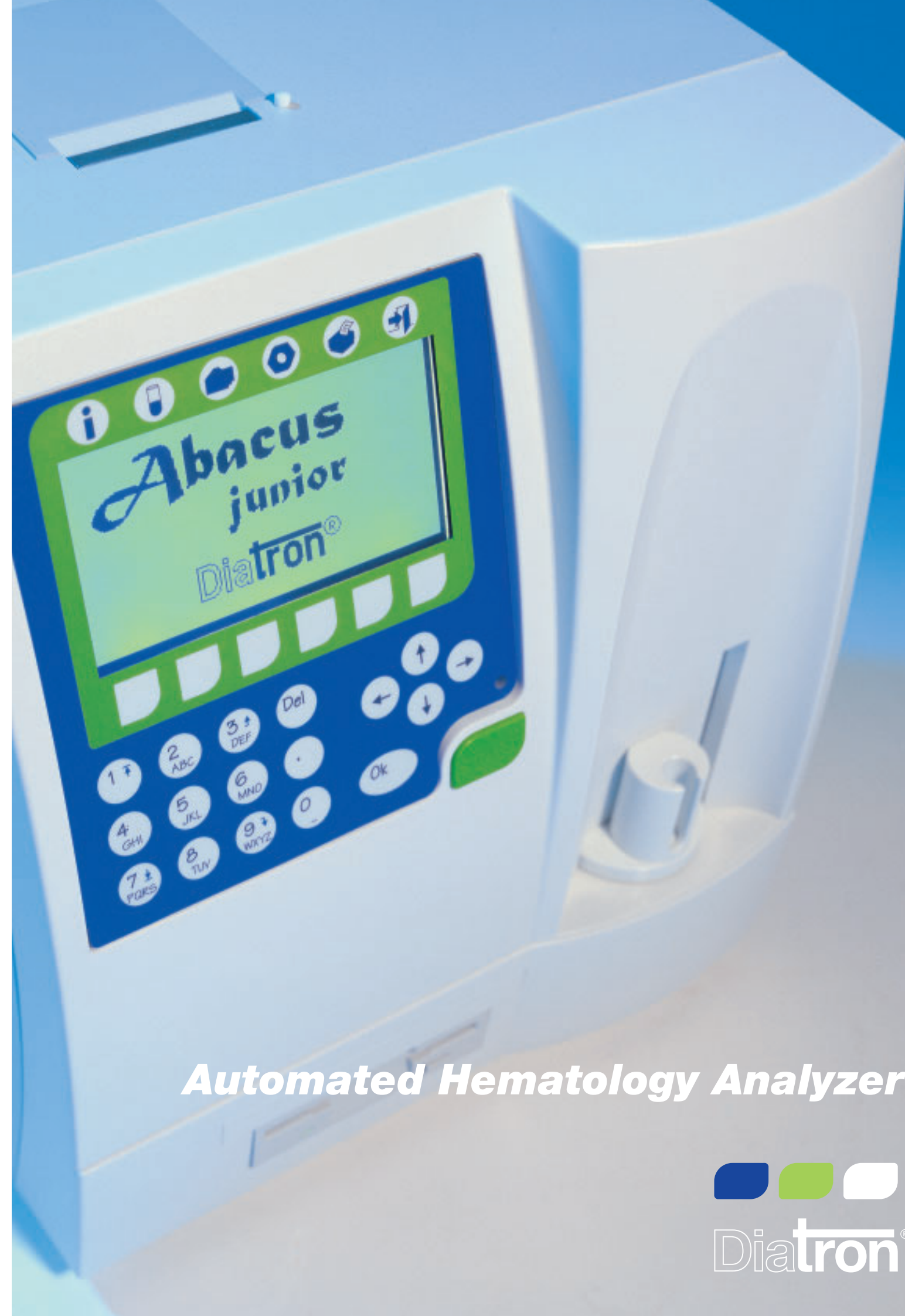
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Diatron reserves the right to change any of the specifications without prior notice.



Automated Hematology Analyzer



Diatron®



Hematology analyzers are indispensable for all sizes of clinics and laboratories, but different needs require different solutions. **Abacus junior** is the most cost effective solution for clinics and practices with a low to medium workload, who demand high quality and precision.

Abacus junior

quality, precision and portability at an affordable price



Abacus junior brings the convenience and accuracy of the reference laboratory right into your practice. It offers maximum value for an affordable price and low running costs.

Abacus junior provides complete 18-parameter hematology profiles in about 2 minutes with no preparation time. All required functions can be accessed from an optimized user interface, enabling the user to work fast and efficiently. The large back-lit LCD allows rapid, accurate patient data entry and monitoring of the test results, including 3 large histograms. **Abacus junior** is designed to be practically maintenance-free, with minimal disruption to your practice.



The instrument features a sophisticated but easy-to-use, logically constructed, multilingual operating menu. It provides 6-level QC, L-J graphs and self-diagnostic functions to let you monitor reliability and accuracy. The large graphic display offers selectable multi-user modes, device statistics, icons and function keys.

Abacus junior is small, light and portable. It can be operated from a 12V car battery. Its compact size makes it ideal for private laboratory use, without demanding extensive space.



A special veterinary version of Abacus junior is available under the name '**Abacus junior vet**'. Its unique technology eliminates the weak points of many rival systems: **Abacus junior vet** easily masters cat PLT and provides a precise reliable 3-part WBC differential for animal blood.



Abacus junior vet
Diatron®



By utilizing industry standard electronic and mechanic components and designs, precise and reliable CBCs are virtually guaranteed even in the most demanding clinical environment. Raw measurement data, operating and patient information are processed by the custom-made credit card size DIMM-PC. The motor-driven rotating primary tube holder guarantees fixed position for the test tube and high precision during sampling and re-sampling.



Diatron®



Abacus junior is a high quality fully automated hematology analyzer, one of the smallest ever made. **Abacus junior** represents the best choice for those who want the smartest instrument available for the office practice market.