



Cell-Tech

AUTOMATED HEMATOLOGY ANALYZER



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Automated Hematology Analyzer

- Throughput:** 60 tests/hour; results in 45 seconds
- Sample volume:** 25µl, Predil mode: 50µl
- Aperture diameter:** RBC, PLT: 80µm, WBC: 100µm
- Measured parameters:** 20 parameters, including 3-part WBC differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, HCT, MCV, RDWcv, RDWsd, HGB, MCH, MCHC, PLT, PCT, MPV, PDWcv, PDWsd
- Sampling method:** Open tube system
- Sample types:** Human (general), male, female, baby, toddler and child
- Reagent sensors:** Optical reagent sensors, programmable waste counter
- Clog prevention:** High-voltage burn of aperture in each measurement cycle
- Cleaning procedure:** High-voltage burst on aperture, high-pressure back-flush and chemical cleaning of the system using Cleaner reagent
- Quality control:** 6 levels, ± range, SD and CV for all parameters
16- and 64-day Levey-Jennings chart, separate QC database
- Calibration:** Automatic (by calibrator) with 1-, 3- or 7-measurements, or factorial (manual) calibration of WBC, HGB, RBC, PLT, MCV, RDW, MPV.
Monitoring of calibration factors by calibration events
- Multi-user feature:** 3-level multi-user operation with selective privilege levels, user identification with ID and password
- User interface:** Easy-to-use, menu driven user interface with 6 function buttons, and graphic icons, on-screen help function
- Optional plug-in:** 11 parameter urine strip reader
 - Display:** 240 x 128 dots high-contrast, backlit, graphics LCD
 - Keypad:** 24 foil keys + START button, Red/Blue machine state light
- External keyboard:** Standard PS/2 or USB compatible keyboard
- Languages available:** Multiple language option
 - Processor:** Dimm-PC SC520 CPU module (Pentium performance)
- Data storing capacity:** 10,000 results including histograms
- Host computer interface:** Serial (RS-232) or slave USB computer link
- Data back-up interface:** USB Mass Storage Device
- SW upgrade:** USB Mass Storage Device
- Printer interface:** Centronics (parallel) or USB with support for HP, Epson, Seiko, Canon or compatible printers
- Optional built-in printer:** Seiko LTPH-245 "Easy Paper Operation" printer module, 58 mm paper width; full report with histograms
- Power supply:** external 12VDC, 6A power module (mobile operation supported)
- Power requirements:** 110-120 or 220-240V / 50-60Hz
- Power consumption:** Standby: 10W, operating: max. 72W
- Operating temperature:** 15 - 35 °C
- Dimensions (W x D x H):** 350x490x385, mm

Cell-Tech provides 18 hematology parameters including complete CBC results and a 3-part WBC differential in 1 minute. The fluidic system is automatically cleaned from dust particles when you turn 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.

Results and histograms are displayed on the large backlit LCD screen. The integrated credit card size computer offers statistics and flexible data management capabilities. 10,000 complete results including histograms can be stored in the central memory.

Cell-Tech can be interfaced to your host computer for further processing of the measured data. You can easily upgrade the software or save your patient profiles simply using a pendrive. Results can be retrieved on the built-in roll paper printer or on a commercial external printer.



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