

# UDI

United Diagnostics Industry



# HEMALAB TRI

First Edition 06, 2006

**UDI** - Blood Cell Counter

20 Parameters and 3 Part Differential Unit  
with urine strips module optional

## HEMALAB TRI

High-end performance at an **affordable price**

# MAXIMUM VALUE THAT WORTHY!!

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## HEMALAB TRI

represents the heavy-duty compact automated hematology analyzer for medium size lab from UDIHEM family of UDI. it provides complete 20 hematology parameters of human blood, with real 3-part WBC differential in one minute and urine strips module that allows the qualitative and semi-quantitative analysis of the urine within one minute along the hematology result for comprehensive laboratory screening. Combined test result can be displayed, retrieved for printing or transfer to a PC.

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is the most cost effective solution for clinics and practices with a low to medium workload, who demand high quality and real 3-part WBC differential results with an instrument supplied with urine strips module to read. It brings the convenience and accuracy of the reference laboratory right into your practice; offers maximum value for an affordable price and low running costs.

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has the fluidic system that 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.

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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 result including histograms can be stored in the central memory. Also, the unit can be interfaced to your host computer for further processing of the measured data. You can easily upgrade the software or save your patient profile simply using pendrive. Results can be retrieved on the built-in roll paper printer or on a commercial external printer.



## Specifications:

<b>Throughput:</b>	60 test/hour
<b>Sample volume:</b>	25 µl of whole blood, predil mode: 50 µl
<b>Aperture diameter:</b>	80 µm (RBC/PLT), 100 µl (WBC/EOS/BAS)
<b>Measurements:</b>	20 parameters, including 3 part WBC differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, HCT, RDW, HGB, MCH, MCHC, PLT, PCT, MPV, PDW, RDW-SD/PDW-SD OR RDW-CV/PDW-CV
<b>Sampling method:</b>	open tube system
<b>Sampling volume:</b>	Human (general), male, female, neonate, baby, toddler and child
<b>Reagent sensors:</b>	Optical reagents sensors. programmable waste counter
<b>Clog prevention:</b>	High-voltage pulses on both apertures in each analysis cycle
<b>Cleaning procedure:</b>	High voltage burst on aperture, high-pressure back-flush and chemical cleaning of the system using cleaner reagent.
<b>Quality control:</b>	6 QC level: incl. mean, range, SD and CV for all measured and calculated parameters, 16- and 64-day levely-jennings charts, separate QC database
<b>Calibration:</b>	Automatic by (calibration) with 1-2 or 3 measurements, or factorial (manual) calibration or manual calibration of WBC, HGB, RBC, PLT, MCV, RDW, MPV. Monitoring of calibration factors by calibration events.
<b>Multi user interface:</b>	3 level multi-user operation with user identification by ID and pasword.
<b>User interface:</b>	Easy-to-use, menu driven user interface with 6 software buttons (with icons), 6 hardware function buttons, cursor and numeric keys.
<b>Optional plug-in:</b>	Urine analyzer module (via RS-232)
<b>Display:</b>	240x128 dots high-contrast, backlit, graphics LCD Hitachi SP 14N003 (blue/white)
<b>Keypad:</b>	24 foil keys + start button, red/blue machine state light
<b>External keyboard:</b>	Standard PS/2 compatible keyboard (optional)
<b>Language available:</b>	English, French, German, Greek, Hungarian, Indonesian, Italian, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Turkish, Vietnamese.
<b>Processor:</b>	Dim-PC SC520 CPU module (Pentium performance)
<b>Data storing capacity:</b>	1000 result including histograms
<b>Host computer interface:</b>	Serial (RS-232) computer link
<b>Data back-up interface:</b>	USB Pendrive.
<b>SW upgrade:</b>	USB Pendrive
<b>Printer interface:</b>	Centronics (paralle) or USB with support for HP, Epson, Seiko, Canon or compatible printers.
<b>Optional built-in printer:</b>	Sieko LTPH-245 "Easy Paper Operation" printer module. 58 mm, paper width: full report with histograms
<b>Power supply:</b>	External 12 VDC power module ( mobile operation supported)
<b>Power supply (input):</b>	110-120 or 220-240 v, 50-60 Hz, auto-raging type 10 w stand by, 72W max. operation power.
<b>Power consumption:</b>	Standby: 10W, 80W max. operation power.
<b>Operating temperature:</b>	15-35°C
<b>Dimension (WXDXH):</b>	350X490X385



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