

UDI

United Diagnostics Industry

VIVAHEM

**UDI - BLOOD CELL COUNTER 22 PARAMETERS
AND 5 PART DIFFERENTIAL UNIT**

First Edition 06, 2006



VIVAHEM - high-end performance at an affordable price

Maximum value

VIVAHEM - represents the high-end class of UDIHEM family of UDI. It provides complete 22 hematology parameters of human blood, with real 5-part WBC differential, based on standard volumetric impedance method and selective eosinophil and basophil reagents. It offers integrated cap piercing system to support closed tube sample handling.

CE



VIVAHEM - is the most cost effective solution for clinics and practices with a low to medium workload, who demand high quality and real 5-part WBC differential results with an instrument that is one of the smallest ever made. 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.

VEVAHEM - provides complete 22-parameter hematology profiles in about 3 minutes (2 minutes in 3 part-mode) with no preparation time. All required function 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 5 large histograms.

User Friendly Operation

VIVAHEM - is almost 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.

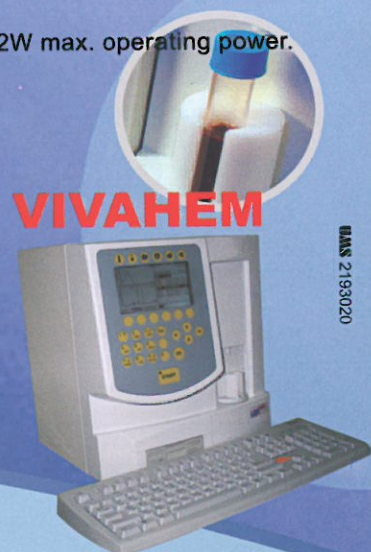
Innovative engineering

VIVAHEM - 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. 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 sample tube holder guarantees fixed position for the test tube and high precision during sampling and re-sampling.

Specification

MEASUREMENTS:	22 parameters, including 5-part WBC differential: WBC, LYM, MON, NEU, EOS, BAS, LYM%, MON% NEU%, EOS%, BAS%, RBC, HCT, MCV, RDW, HGB, MCH, MCHC, PLT, PCT, MPV, PDW
SAMPLE VOLUME:	90 µl of whole blood
APERTURE DIAMETER:	80 µm (RBC/PLT), 100 µm (WBC/EOS/BAS)
THROUGHPUT:	20 tests/hour (in 5-part mode) 30 tests/hour (in 3-part mode)
SAMPLING METHOD:	Open or closed tube system with automatic sample rotor
SAMPLE TYPES:	Human (general), Male, Female, Neonate, Baby, Toddler and Child
FAULT STATISTIC:	RBC/WBC clogging, <1% of analyses (in normal use)
CLOG PREVENTION:	High-voltage pulses on both apertures in each analysis cycle
CHEMICAL CLEANING:	of both apertures using cleaner reagent
QUALITY CONTROL:	6 QC levels: incl. 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 and EOS, BAS absolute counts.
MULTI-USER INTERFACE:	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.
LANGUAGE AVAILABLE:	English, French, German, Greek, Hungarian, Indonesian, Italian, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Turkish, Vietnamese.
DATA STORING CAPACITY:	1000 (2000/5000 optional) result, including 5 histograms
HOST COMPUTER INTERFACE:	Serial (RS-232) computer link
DATA BACK-UP INTERFACE:	3½ floppy disk or USB Mass Storage Device
SOFTWARE UPGRADE:	3½ floppy disk, USB Mass Storage Device or slim CD-ROM (optional)
PRINTER INTERFACE:	Centronics (parallel) and USB
OPTIONAL BUILT-IN PRINTER:	"Easy paper operation" thermal printer (optional)
DISPLAY:	240X128 dots high-contrast, backlit, graphics 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 200-240, 50-60 HZ, auto-ranging type 10 W stand by, 72W max. operating power.
OPERATING TEMPERATURE:	15-35 °C
DIMENSIONS (WXDXH):	320X260X365
NET WEIGHT:	14 kg.

S.NO.	CAT NO.	PRODUCT	FORM	PACK SIZE
1	622H MV-020	VIVATONE	LIQ	20 LITERS
2	645H MV-001	VIVALYSE	LIQ	1 LITER
3	692VI-001	VIVALYSE BA	LIQ	1 LITER
4	694VI-001	VIVAEOS	LIQ	1 LITER
5	650H MV-005	VIVACLEAN	LIQ	5 LITERS



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