

DV 990 BV



Programmable MTP Reader Mod. DV 990 BV

performs immune and allergy tests for quantitative and cut-off method readings with Elisa Methods

MAIN VERSIONS AVAILABLE

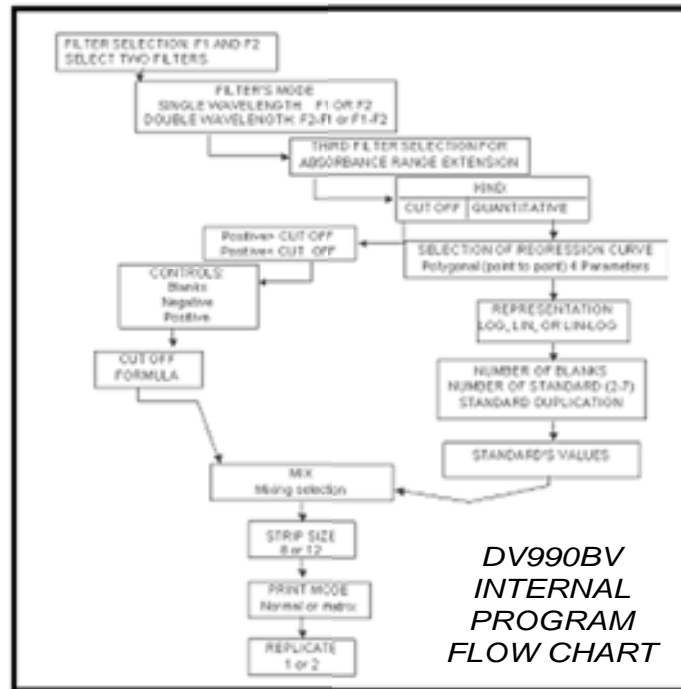
- BV4 with four filters: 405-450-492-620 nm
- BV6 with six filters: 405-450-492-540-620-670 nm
- BV5UV with filter 340 UV and four filters-405-450-492-620 nm
- Additional filters: on request, filterwheel for up to 8 filters

MAIN SPECIFICATION

- Rack holder for 96 wells microplates
- Wavelength range 400-800nm. (340-800 for BV5UV)
- Automatic filter selection supplied with narrow band filters
- Readings single wavelength, double wavelength (A-B), or multiple (dual wavelength) for measurement range expansion
- Fast reading single double wavelength 7"
- Plate shaking before readings
- Measurement range 0-3.5OD or 0-9OD in trichromatic wavelength mode
- Linearity $\pm 1\%$
- LCD back-lit 4 lines display (English language)
- 24 keys membrane keyboard with 42 functions
- Bi-directional RS232 interface
- Parallel output for printer
- 30-50 storable programs
- Blank and standard assignments.



other wavelength on request



**DV990BV
INTERNAL
PROGRAM
FLOW CHART**



PRINT DATA

METHODS

CUT OFF: print out of 96 wells absorbance values with Pos or Neg marker for each well in matrix or one line each sample format.

QUANTITATIVE: up to 7 standards in single or duplicate. Print out four parameters or polygonal regression curve in linear or logarithmic scale; prompt for eventual aberrant curve points modification. Absorbance and concentration print out in matrix or column format.

In both methods standard and controls can be memorized
Options:

System 990 Plate Kit for instrument validation with software
DV 990BV READER is a stand-alone system,
can be connected to a 40 column printer
on request Epson LX/LQ300



All illustrations and specifications contained in this folder are based on the latest information available at the time of printing. NT Laboratory reserves the right to make changes to materials, equipment and models, and to discontinue models at any time without notice.

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DV-990 Win6



DV-990 Win6. Windows™ based Software with flexible data handling

- Programs for qualitative, quantitative and kinetics analysis
- Scheme of the microplate
- Results saved on files to be utilized with additional programs
- Readings: single wavelength, double wavelength (A-B), or multiple
- Memorization of standard
- Easy data entry - Patient list – Validation conditions

Cut-off

- Flexible wells assignment of blanks and controls
- 8 cut off levels subordinate to controls absorbance values signed with P or N mark
- 8 validation formulas with error signal
- Printed results: in matrix or column format

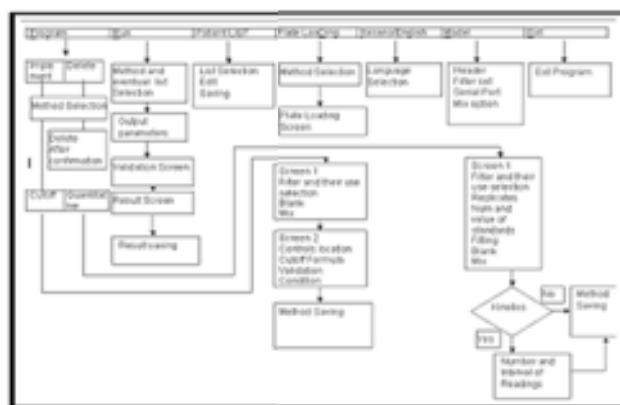
Quantitative

- 2/7 standards
- Regression curve: stray line, polygonal, spline and 4 parameters
- Graphic scale: linear or logarithmic
- Printed results: in matrix or one column format. 2 a 7 standard; validation conditions
- Curve presentation lin - lin and lin-log

Kinetic

- Number and time programmable
- Calculation in quantitative mode

FLOW CHART DV 990WIN6



HARDWARE SPECIFICATIONS

OPTICAL SYSTEM	8 MEASURING CHANNELS +1 FOR LAMP AUTO-CALIBRATION WITH FIBER OPTIC GUIDE READOUT: LINE OF 8 OR 12 wells
READING TIME	SINGLE WAVELENGTH: 7" DOUBLE WAVELENGTH: 7"
MEASUREMENT RANGE	0 – 3.500OD IN SINGLE WAVELENGTH 0 – 9 OD IN TRICHRMATISM
ACCURACY	1A (OD) ± 0,02 OD
LINEARITY	± 1% (0-2 OD)
REPEATABILITY	1,0 A (OD) ± 0,01 A (OD)
RESOLUTION	0.001 A
SPECTRAL RANGE	400 - 800 NM.(340-800 NM only BV5UV).
FILTERS	NARROW BAND INTERFERENTIAL AUTOMATICALLY SELECTED
SOURCES	HALOGEN LAMP
DISPLAY	LIQUID CRYSTALS
KEYBOARD	ALPHANUMERIC 24 KEYS 46 FUNCTIONS
DATA HANDLING	INTERNAL SOFTWARE OR PC SOFTWARE
INTERFACES PC:	RS-232C PRINTER: PARALLEL OUTPUT
ELECTRIC REQUIREMENTS	220 V 50 HZ 300 W OR 110V/60 HZ
WEIGHT	11KG
DIMENSIONS	40 X 35 X 15 (H) CM

INTERNAL SOFTWARE SPECIFICATIONS

CAPITULATES READINGS	30 –50 STORABLE CAPITULATES SINGLE WAVELENGTH DOUBLE WAVELENGTH (A-B OR B-A) THRICROMATISM WAVELENGTH (RANGE EXPANSION) SINGLE OR DUPLICATE
BLANKS STORAGE OF CALIBRATION CURVES AND CUT OFF	POSSIBILITY TO USE STANDARDS AND CONTROLS OF PRECEDING RUNS AND EVENTUALLY OF CURVES MODIFICATION ON THE BASE OF WELLS USED AS CONTROL
CUTOFF METHODS	CUT OFF CALCULATION P O N MARKER FOR EACH WELL ACCORDING TO THE CAPITULATE
QUANTITATIVE METHODS	2 TO 7 STANDARDS, IN SINGLE OR DUPLICATE SAMPLES IN SINGLE OR DUPLICATE REGRESSION CURVE: 4 PARAMETERS OR POLYGONAL CURVE PRINTOUT IN LINEAR OR LOGARITHMIC SCALE PRINTOUT RESULTS IN ABSORBANCE AND CONCENTRATION
PRINTOUT CONFORMITY	SEQUENTIAL OR IN MATRIX FORMAT IEC 61010-L DIRECTIVE 98/79/EEC IVD In Vitro Diagnostic Devices
ELECTROMAGNETIC COMPATIBILITY	89/336/EEC- CE MARK

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