

Instruments & Accessories

Microtiter Plate Reader



Features

Model U960 is installed with RS232C serial interface and parallel centronics printer interface for connection with computer and external printer. The resident software enables user to store up to 20 self-defined test programs. ModeU960 has a cartridge port built-in for use with customized software.

DATA ANALYSES AND PRINTOUTS

- Absorbance and concentration values can be printed in 8x12 matrix format.
- Limit reports screening absorbance values can be printed in reference to one to four user-defined thresholds.
- Range reports indicate each well's absorbance as in up to ten bins within a user-defined range of upper and lower threshold values.
- Internal clock monitors data and time and provides printout of which along with each test report.

READING MODES

- **READ AND EJECT** mode reads the plate under defined parameters, produces printout of result, and ejects the plate within 60 seconds.
- **MONITOR- A- WELL** mode continuously monitors a designated well for pre-defined absorbance or concentration prior to reading of the entire plate.
- **REPEAT READING** mode reads the plate repeatedly at the interval pre-set by user.

BLANK MAPS

- FULL
 - HALF
 - QUARTER
 - 8-ROW
 - 12-COLUMN
 - DIFFERENTIAL
 - CONSTANT
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- User can specify required reading map in full, half, quarter, 8-row, or 12-column patterns, and define any desired wells in each map as blanks.

- Differential map enables reading in 12 column way with each individual full column alternately of blanks and samples.
- Constant map provides reading with user defined blank subtraction to whole plate.

LINEAR/NON-LINEAR REGRESSION

User can request to do one to ten standards in single or duplicate wells, and define linear or nonlinear standard curve fit when standards are three and up.

SPECIFICATIONS	
MICROPLATE CARRIER	Accommodating all 96-well microplates
WAVELENGTH RANGE	400 ~ 700 nm
FILTERS	Two narrow band interference filters mounted in a cassette Bandwidth : 10 nm \pm 2nm Filter supplied : 450 / 600 nm (P/N S096001001) Options : 405, 490, 550, 650 Any combination available on request
PHOTOMETRIC METHOD	Single or dual wavelength measurement
PHOTODETECTOR	(8) solid-state silicon photodiodes
DISPLAY	LCD - 20 x 4 characters
DATA ENTRY	Via (31) key touch panel
EXTERNAL OUTPUTS	RS-232C bidirectional interface - for data transfer to a computer with selectable baud rate 300 , 600, 1200, 2400 , 4800 , 9600 Parallel centronics interface - for data output to an external printer
LIGHT SOURCE	Tungsten Halogen lamp 6V / 10W (approx . 2000 hours life)
ABSORBANCE RANGE	0.000-2.500 O.D.
LINEARITY	0.000-2.000 O.D. \pm 1.0% at 405nm
REPRODUCIBILITY	Less than 1.0% C.V.for O.D. greater than 1.000 at 405nm
STABILITY	Drifting less than 0.005 O.D. / hr after one hour warm-up time
RESOLUTION	0.001 O.D.
POWER	90 V-126V/ 180V-246V , 50 / 60Hz , 40W
SPEED	Less than 60 seconds for 96-well plate
DIMENSION	425mm in width 320mm in depth 150mm in height
WEIGHT	Net: 12Kgs (26.5lbs) Shipping: 15kgs (33.0lbs)
ACCESSORIES	-Tungsten Halogen lamp (installed) (P/N 0960013000)
	- 2 spare fuses (P/N 0530500002 for 100/120V) (P/N 0560690002 for 220/240V)
OPTIONS	-RS-232C interface cable (P/N 0580690009) -Parallel centronics cable (P/N 0580690008)

◇ CE certified. Available in both 115V and 230V AC. Switch located in the back to use at 110V (default setting) or 220V. **1-year Warranty**

Ordering PN 475006 Microtiter Plate Reader

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