

Photometer

PRELIMINARY



hiLight is a flow-cell low cost photometer suitable for any kind of photometric assay, ideal of clinical chemistry.

The low volume of the flow cell as well as the stepper motor driven fluidics make it possible to use only 500uL of reagent for a single assay. The software features linear, polynomial and log-logit calibration curves for virtually any possible application.

The photometer is driven by a 16 bit computer and integrates a fast graphic thermal printer for maximum flexibility.

- Peltier controlled flow cell
- Stepper motor driven fluidics for maximum volume repeatability
- interference filter monochromators from 340nm to 700nm
- Standard assays : endpoint, fixed time, kinetic. Programmable reagent and sample blanking.
- Linear, polynomial and log-logit calibration curves.
- Graphic printer for assay results, kinetic absorbance plots and calibration curves
- Battery backed up memory for assay methods, calibration curves and the built in clock.
- Very simple human interface by means of an LCD display and a three key keyboard
- Bundled PC software to connect the **hiLight** to a PC either via the Rs232 port or via the optional Ethernet interface
- Methods and calibrations can be saved and reloaded from the PC

hiLight

Technical features

Optics

Halogen lamp
Silicon UV photodiode
Interference filters from 340 to 700 nm on a filter wheel
Narrow band filters: FWHM 4nm
Linearity: +/- 1% up to 2700mA
Sensitivity: 1mA

Methods

Up to 100 on line
End Point, Fixed time, Kinetic
Reagent and sample blanking
Bichromatic reference
Reagent volume: 500 uL

Calibration

Up to 9 calibration points
Linear, polynomial, Log/logit

Computer

16 bit computer board
128K Flash memory

256K RAM
16x2 LCD display
Graphic thermal printer
RS232Host interface
Optional Ethernet interface for integration in a computer network

Supply

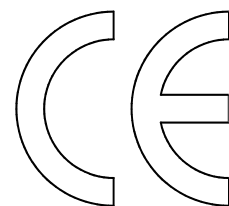
Frequency 50Hz
Power 100W

Dimension

Height 28 cm
Width 16 cm
Depth 40 cm
Weight 5 Kg

Conformity

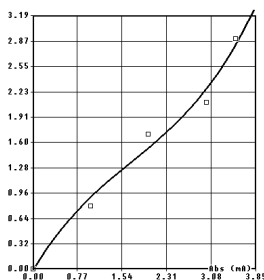
89/336/CEE, 92/31/CEE, 93/68/CEE,
93/97/CEE,73/23/CEE,
CEI EN 50082-1, CEI EN 50081-1, CEI EN
60335-1



Date : 15/11/03
Ora : 8:15
Serial # : 0001
Software : ver 0.1
Firmware : ver 1.0

Method TEST
Blanking : reagent
Calibration : Cubic
Dilution : 1:1

hiLight (C) 2003
15/11/03 8 12



Calibrator table

1	0.000	0.000
2	0.800	1.000
3	1.700	2.000
4	2.100	3.000
5	2.900	3.500

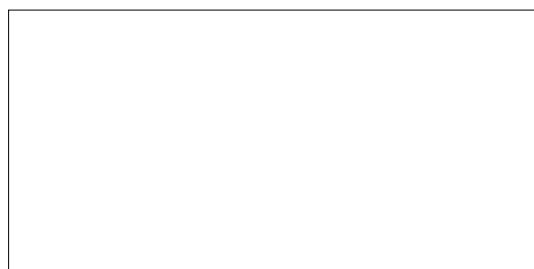
Coefficients

1	-0.024591
2	1.220499
3	-0.363121
4	0.070493



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