

Micro-Volume Spectrophotometer

MaestroNano

MaestroGen develops the MaestroNano spectrophotometer, which is user friendly, reproducible and repeatable. There are only three buttons as user interface. After dispensing sample on the surface of glass, users may use the buttons to select sample type and begin to measure. The measurement results can be obtained from touch panel and thermal printer.

MaestroNano spectrophotometer does not intend to change light path length during measurement to reduce frequency of calibration. The main function of MaestroNano is the concentration measurement from two micro liter nucleic acid or protein solution.

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MICRO-VOLUME SPECTROPHOTOMETER

MaestroNano is a specialized instrument for bio-chemical research , especially for micro-volume solution concentration measurement.

MaestroNano has a whole new technology of optical system design. There is NO optical fiber needed. Moreover, with the vertical slide design, the sample measuring area is more durable and stable.

MaestroNano has a reliable measurement range of concentration from 2 to 2000 (ng/ μ L) and has a great resistance for the interferences of ambient light to get more accurate measurement.

Specification

Measurement Sample Size	2 ul
Measurement Data Output	(A)OD230nm, OD260nm, OD280nm, OD320nm (B)Sample concentration (ng/ul) (C)OD260nm/OD230nm, OD260nm/OD280nm
Minimum Concentration	2 ng/ul (dsDNA), 1.6 ng/ul (RNA)
Maximum Concentration	2,000 ng/ul (dsDNA), 1,600 ng/ul (RNA)
Light Propagation Material	Quartz glass
Absorbance Range (10mm)	0.04 ~ 40
Pathlength	~0.5 mm
Measurement Time	< 5 sec
Operation System	Android OS (ver. 4.4.3)
LCD Resolution	7 inches, 1024(W)x 600(H) dots matrix
Light Source	Xenon flash lamp
Internal Storage	32GB
Data Output Interface	Thermal printer
Data Connection interface	1. Wi-Fi x 1 (USB dongle) 2. OTG USB x 1 (connected to PC to access) 3. Ethernet x 1 (RJ-45) 4. USB x 1
Maintenance	Auto diagnosis, Calibration Program, Fix pathlength
Operating Voltage	12 V
Dimensions	20(W) X 21(D) X 33(H) cm
Weight	3.5 Kg

