

Digital UV-visible microplate reader



Introduction:

QC-200D is a UV/Vis microplate spectrophotometer offering free wavelength selection, so being an ideal tool for virtually any photometric research application, such as DNA, RNA, protein analysis and more. It offers exceptional usability through its intuitive, user-friendly internal software and comprehensive ReaderIt-II Software. QC-200D microplate reader has been designed to deliver high performance and high-quality results with minimal user effort, It measures 96-and 384-well plates and plate shaking motion is linear.

Features:

- 1.** 10-inch touch screen, and offers the stand-alone operation, it is easy to use Intuitive, user-friendly internal software on a 10-inch touch screen for quick measurements. Easy and logical assays are set up for demanding assays with the powerful PC software (ReaderIt-II), the PC software can offer to analyze, review, and validate data. It is easy to access data via the USB interface and WIFI
- 2.** Freely selectable wavelengths from 200 - 1000 nm for the demands of various assays Wavelength selection in QC-200D is done by using an advanced monochromator system. Any wavelength between 200 to 1000nm can be selected at any time. Using the spectral scanning feature, the whole spectrum of a sample is scanned in 1nm increments to allow the identification of the optimal measurement wavelength for a new assay.
- 3.** Both microplate readings for any throughput requirements It measures 96-and 384-well plates
- 4.** Flexibility and performance for various photometric applications QC-200D microplate reader supports endpoint, kinetic and spectral scanning assays. It reads 6-48-96 and 384-well microplates with and without lids. A broad wavelength range with the UV area, pathlength correction, as well as fast spectral scanning, makes it an ideal tool for any photometric research application, including DNA, RNA and protein analysis

Technical Parameters:

Model	QC-200D
Display	10-inch touch screen
Light source	Quartz-halogen lamp
Wavelength range	200 - 1000 nm with 1 nm steps
Wavelength Accuracy	±2 nm
Repetition	±0.2 nm
Wavelength selection	Monochromator
Read-out range	0 - 4.0 OD
bottle	3 pcs 2.5L washing bottle, 1pcs 2.5L waste bottle
Half-bandwidth of filters	<2.5 nm
Detector	Two silicon photoelectric detectors, one for measurement, and another for reference
Linearity @450nm	0 - 2.5 Abs, ±2% (96 well plates)
Accuracy @450nm	1.0% + 0.005 Abs (0 - 2.0 Abs); 2.0% [2.0 - 2.5 Abs)
Precision @450nm	CV < 0.5% accurate model; CV < 1.0% fast mode
Test speed	10 seconds with 96-well plate (fast mode); 30 seconds with 96-well plate (accurate model)

Plate shaking	Linear; three options for speed
Test speed	15 seconds with a 96-well plate (single wavelength); 30 seconds with a 96-well plate (double wavelength)
Incubator	From ambient + 5°C to 45°C
UI	Integrated software or PC control software
Analysis software	Reader It-II
User interface	Touch screen, android system, 10-inch touch screen, external keyboard mouse
Storage	16G memory, more than 10,000 test records can be stored
Ports	3 USB ports, for PC, printer and USB-disk
Automated systems	Temporarily unable compatible with automated systems
Power supply	DC24V 6.5A
Dimensions(W×D×H)	310×510×300mm
Weight	16kg