

FlexA-200 Microplate Reader

FlexA-200 full-wavelength Microplate reader is a high-quality Microplate reader based on grating monochromator with a wavelength range of 200-1000 nm. It can be used for spectroscopic scanning, endpoint method and kinetic detection. It is suitable for 96 well plates and 384 well plates with or without cover. FlexA-200 can be shocked and cultured by microporous plate, and the highest temperature of culture is up to 45 °C.

FlexA-200 Microplate reader can be operated independently by the built-in software of the instrument, and can be controlled by PC using ReaderIt-II software.



Specification

Display	10 inch touch screen
Light source	Quartz-halogen lamp
Wavelength range	200 - 1000 nm with 1nm
Wavelength accuracy	±2 nm
Wavelength repeatability	±0.2 nm
Wavelength selection	Monochromator
Reader-out range	0 - 4.0 OD
Half-bandwidth of filters	<2.5 nm
Detector	Two silicon photoelectric detector, one for measurement, 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% accuracy model; CV < 1.0% fast model
Test speed	10 seconds with 96-well plate (fast mode); 30seconds with 96-well plate (accurate model)
Plate shaking	Linear; three options for speed
Test speed	15 seconds with 96-well plate (single wavelength); 30seconds with 96-well plate(double wavelength)
Incubator	From ambient +5°C
UI	Integrated software or PC control software
Analysis software	ReaderIt-II
User interface	Touch screen, android system, 10 inch touch screen, external keyboard mouse
Storage	16G memory, more than 10000 test records can be stored
Ports	3 USB ports, for PC, USB-disk, printer
Automated systems	Temporarily unable compatible with automated systems
Power supply	DC24V 6.5A
Dimension(W*D*H)	300×500×290mm
Weight	15kg

FlexA-200 Microplate Reader

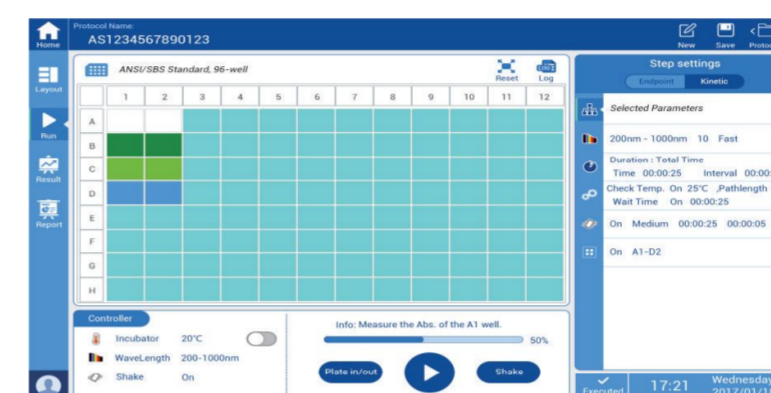
Code	Description
AS-19010-00	FlexA-200 Microplate Reader
AS-19011-01	ReaderIt-II Software
AS-16051-26	Printer
AS-16051-27	Printer Paper

Choose detection wavelength freely with raster

FlexA-200 adopt the xenon flash lamp as light source,which choose the wavelength range from 200-1000nm with 1nm step by grating monochromator for the full spectrum scanning only needs 15 seconds each sample.

Friendly operation interface which can complete fast detection in FlexA-200

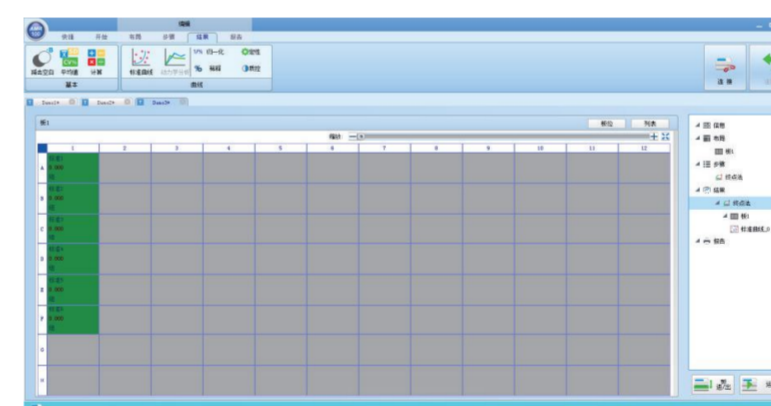
The built-in software of Flex-200 which has 10 inch high resolution touch scree and adopts the graphic interface, it make the operations easy. In addition ,you can use USB to export date.



ReaderIt-II software has the strong data analysis and advanced detection setting ability

Graphic interface ReaderIt-II realized the simulation demonstration function. The data analysis function includes quantitative curve fitting, quantitative analysis, kinetics calculation, custom equation and 4 parameter fitting and so on. Data can be exported to Excel format easily, and the detailed report also can be exported by the built-in tools.

FlexA-200 instrument built-in software and ReaderIt-II software are both Chinese/English interface intuitive graphical interface is convenient for customers to use.



High quality date and stabilized performance

The optical system makes sure the high quality data and stabilized performance of FlexA-200:

1. Double beam optical system has the reference optical channel system, which make the data more stabilization.
2. Self checking system make sure the device running stabilized.
3. Long life xenon lamp which can be used for 10⁹ times.

Incubator function

Temperature range: ambient +5°C to 45°C.

Average temperature difference: ±0.5°C (at 37°C).

Uniformity: <1.0°C(96 well plate without cover, at°C).

Liner shaking function for microplate

Three options for the shaking speed: Low speed, Intermediate speed and High speed.

Low speed: 5Hz, amplitude 15mm.

Intermediate speed: 11Hz, amplitude 3mm .

High speed: 20Hz, amplitude 1mm.

Wide and convenient application

FlexA-200 can be used for spectrum scanning, end point and kinetic detection in 96/384-well plates.

Applications:

1. DNA/RNA quantitative and purity analysis.
2. Protein quantitative.
3. Enzymology and immune detection.
4. Kinetic detection.
5. Cell multiplication and cytotoxicity detection.

Easy to use:

1. Raster full wavelength which can be used for spectrum scanning to find the best detection wavelength.
2. Small bandwidth (< 2 nm) and higher wavelength accuracy
3. Touch screen and built-in graphic interface software with android system make the operation easy.
4. Friendly used of ReaderIt-PC software.
5. With the function of incubation oscillation, Heating lid incubation reduces liquid evaporation .
6. Software upgrade for free.

Energy saving mode

1. Stepper motor and incubator shut down.
2. Display turns darken.
3. Click any button to quit the energy saving mode.