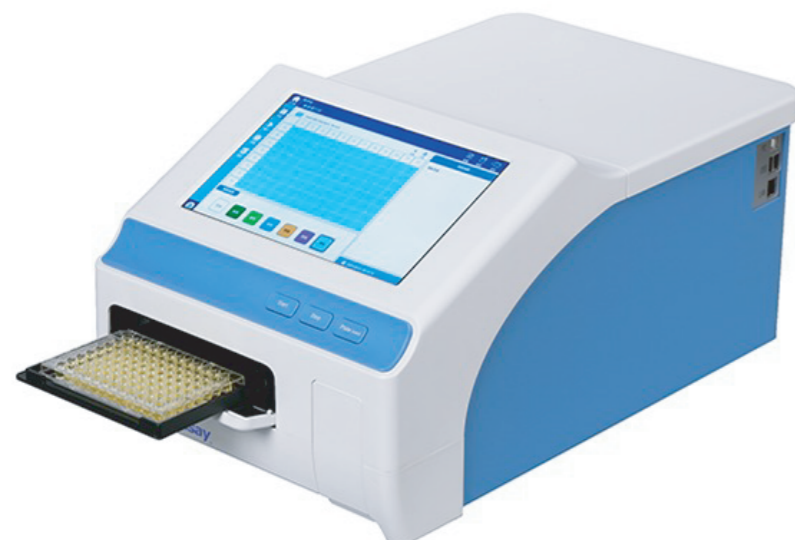


05 FlexA-200 Microplate Reader



Description

FlexA-200 is a UV/Vis micro-plate 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.

FlexA-200 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 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 setup for demanding assays with the powerful PC software (ReaderIt-II), the PC software can offer to analysis, review, validate data. It is easy access to data via USB interface and WIFI

2. Freely selectable wavelengths from 200 - 1000 nm for the demands of various assays

Wavelength selection in FlexA-200 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 be scanned in 1nm increments to allow identification of the optimal measurement wavelength for a new assay.

3. Both microplate reading for any throughput requirements

It measures 96-and 384-well plates

4. Flexibility and performance for various photometric applications

FlexA-200 microplate reader supports endpoint, kinetic and spectral scanning assays. It reads 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

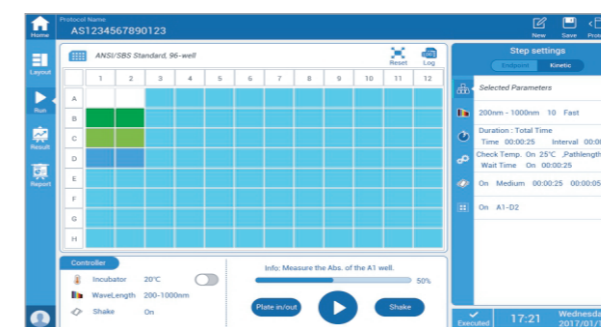
01

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.

02

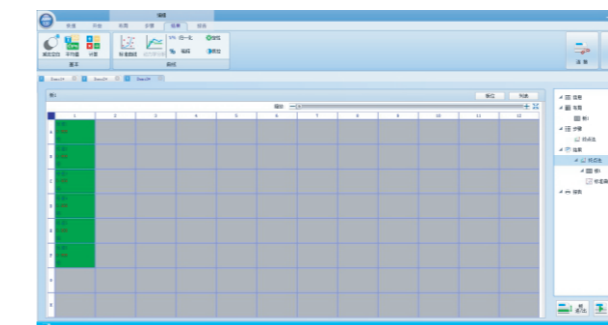
Friendly operation interface which can complete fast detection in FlexA-200



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

04

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.

04

Liner shaking function for microplate

1. 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
2. Shaking mode can be run in the kinetic progress.

05

Incubator function

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

Heating up time: heating up time from 25°C to 37°C is less than 45min (96 well plate without cover, 200ul water per well)

Uniformity: <1.0°C(96 well plate without cover, at 37°C)

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

06

High quality data 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.

07

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
6. Cell apoptosis detection
7. Report gene and GPCR detection

Easy to use:

1. Raster full wavelength which can be used for spectrum scanning to find the best detection wavelength.
2. Touch screen and built-in graphic interface software with android system make the operation easy.
3. Friendly used of ReaderIt- PC software.
4. Fast reading mode only need time 10s for 96 well plate and 30s for 384 well plate.
5. Software upgrade for free.

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Energy saving mode

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

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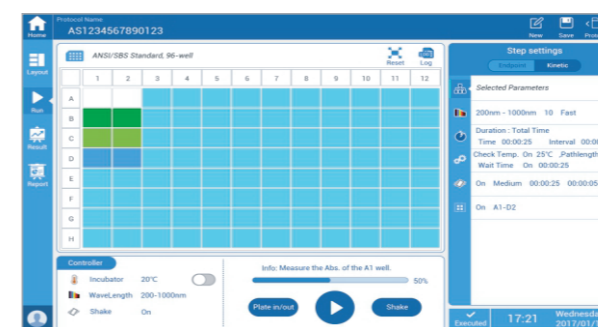
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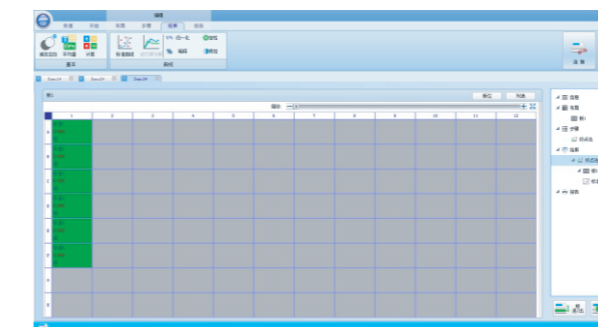
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06 APW-200 Microplate Washer



Specification	
Display	10 inch touch screen
Light source	Xenon flash 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
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% 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 96-well plate (single wavelength); 30 seconds with 96-well plate (double wavelength)
Incubator	From ambient + 5°C to 45°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 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)	300×500×290mm
Weight	15kg

Ordering information		
NO.	Code	Description
01	YB-19010-00	FlexA-200 Microplate Reader
02	YB-19011-01	ReaderIt-II Software
03	YB-16051-26	Printer
04	YB-16051-27	Printer Paper

Features

1. Low residual liquid, each well ≤1μL
2. Compatible for microplates: flat, U, V, C bottom
3. 4.3 inch color LCD display, easy to operate
4. Washing head position can accurate to 0.1mm
5. Wash parameters can be set to make sure the best washing effect
6. Support external U-disk, for program exporting
7. 100 programs can be saved
8. Uniform volume mark make it easy to measure the liquid
9. Automatic alarm for full liquid
10. Strainer in the pipeline and automatic washing functions avoid the liquid blocking the pipeline

01 Easy Operation

The APW-200 Microplate Washer has 4.3 inch LCD display with friendly interface, U-disk can be used to transfer the datas between the PC and the washer or between two washers, it can also be used to upgrade the software. The washing head can be replaced easily for different kinds of microplates.

02 Safety and reliable feature

The APW-200 Microplate Washer is equipped with liquid position sensor to avoid the washing liquid used up or waste liquid from overflow, minimize the risk and avoid the liquid being sucked into the pump to break the equipment. Besides it has shaking function, which can improve the washing efficiency

Specification

Residual liquid	≤1μL
Washing heads	1x8 or 1x12 heads
Plate types	Flat, U, V, C bottom
Washing method	Single-point, two points and multi points
Washing volume	50-2000μL, increase by 50μL
Washing times	99 times
Washing channels	3
Bottles	3pcs 2.5L washing bottle, 1pcs 2.5L waste bottle
Dispense accuracy	≤2%@300μL
Liquid injection accuracy	CV≤1.5% @ 300μL
Soaking and shaking time	19'59"
Data connection	USB
Weight	12kg
Power supply	AC110-240V, 50/60Hz

Ordering information

Code	Description
YB-16020-00	APW-200 Microplate Washer, 110V-240V
YB-16011-01	8 needles washing head
YB-16011-02	12 needles washing head
YB-16011-03	Washing liquid bottle
YB-16011-04	Waste liquid bottle