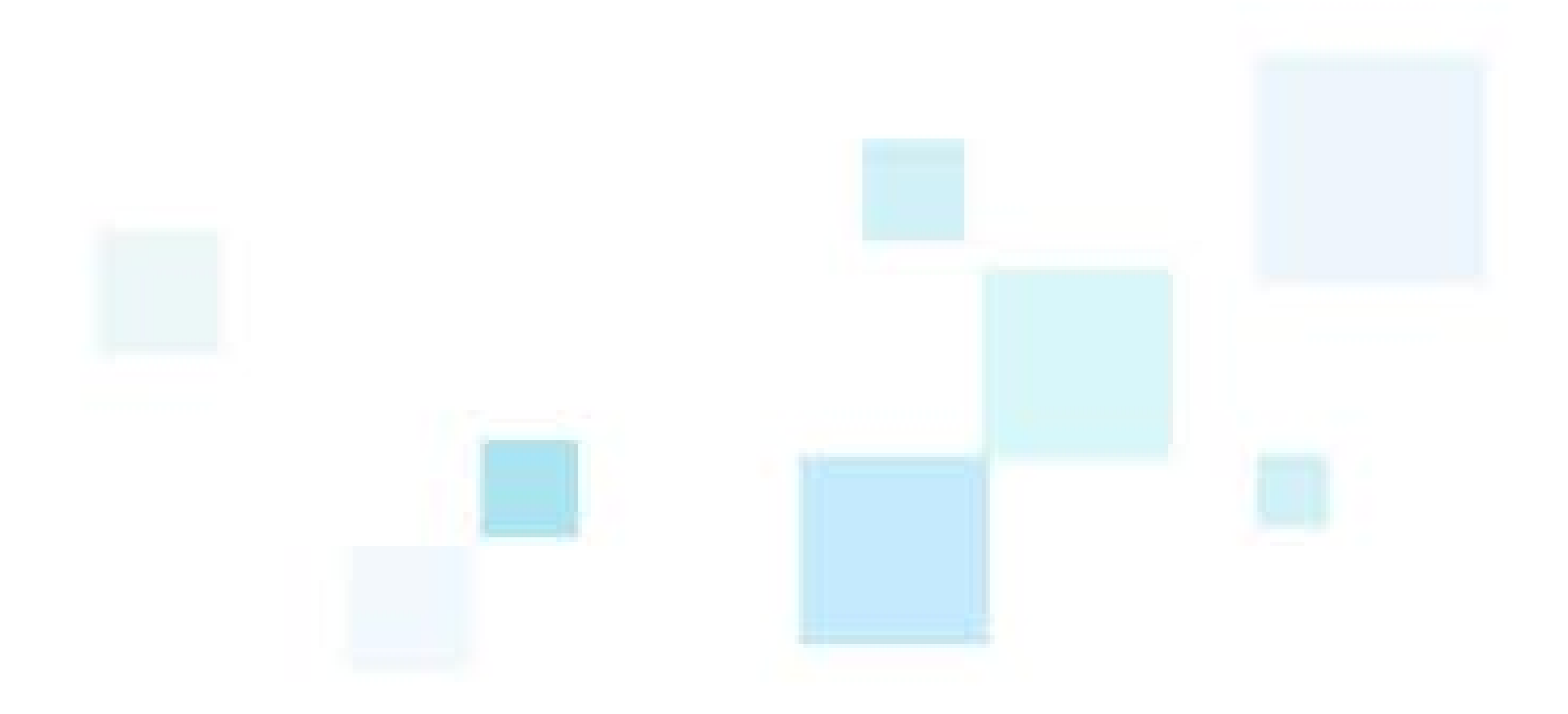




**INNOVA**  
The passion for science



## Microplate Reader & Microplate Washer

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## Company profile

Innova Bio-Meditech is one of the professional solution provider of laboratory and medical devices. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

Innova Bio-Meditech possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.



# Microplate Reader IMR-200n

# Microplate Reader IMR-200c



## Main Features

- \* Single or dual wavelength measurements, comprehensive qualitative and quantitative data-evaluation functions with cut-offs, curve-fits and transformation formulas
- \* Proven optical system with 8 channel optical fiber scanning, auto plate centering system positions the center of the cell accurately
- \* Performing 12 different tests just in one plate
- \* Store 500 test items and 10,000,000 test data
- \* Multi-forms in result output including patient comprehensive report
- \* Auto Lamp adjustment and auto calibration, improve the efficiency of the system and reduce the cost
- \* With USB interface, easily connect to PC , comprehensive functions with Found WordStation PC software.

## Technical Specification

Microplate types: 96/ 48 -well plate  
 Photodetector: Silicon Photodiode  
 Light source: 8v/50w Controlled tungsten halogen lamp OR **LED light**  
 Wavelength range: 400nm~800nm  
 Standard filters: 405,450,492,630nm & 4 optional  
 Reading range: 0.000~4.000A  
 Resolution: 0.001A  
 Accuracy: ±0.008A  
 Reproducibility: ≤0.2%  
 Stability:±0.003A  
 Shaking: Linear Shaking , 3 speeds  
 Interface connections: USB  
 Power supply: 100~240V, 50~60Hz  
 Dimensions:460(L)×350(W)×197(H)mm  
 Net weight: 7 kg



**LED light**

## Main Features

- \* Touch screen, 7" high resolution LCD display
- \* Built-in printer
- \* 8 channel optical fiber scanning
- \* Single or dual wavelength measurements
- \* Performing 12 different tests just in one plate
- \* Multiplicate report formats of patient information
- \* Auto Lamp adjustment and auto calibration
- \* Stable memory stores up to 200,000 test data,500 test projects
- \* User-friendly and easy to programme
- \* Easy connect to PC



## Technical Specification

Microplate types: 96/ 48 -well plate  
 Photodetector: Silicon Photodiode  
 Light source: 8v/50w Controlled tungsten halogen lamp OR **LED light**  
 Wavelength range : 400nm~800nmStandard filters: 405,450,492,630nm & 4 optional  
 Reading range: 0.000~4.000A  
 Resolution: 0.001A  
 Accuracy: ±0.008A  
 Reproducibility: ≤0.2%  
 Stability:±0.003A  
 Reading Speed : Single Wavelength≤3s ; Double Wavelength≤6s  
 Shaking: Linear Shaking , 3 speeds  
 Printer :Built-in Thermal Printer, optional external printer  
 Interface connections: 2×USB,1×RS-232, PS2 Mouse&Keyboard  
 Power supply: 100~240V, 50~60Hz  
 Dimensions: 460(L)×350(W)×197(H)mm  
 Net weight: 8kg



**Optional** LED Light (lifetime warranty) Incubation

# Microplate Reader IMR-200



## Main Features

- \* Touch screen with 10.4" color LED display, resolution 1024\*600
- \* Built-in printer
- \* Large Intelligent operation interface, easy connect to PC
- \* Flexible Plate layout with Blanks, Standards, Samples, Reference, QC in one screen
- \* Comprehensive qualitative and quantitative data-evaluation functions with cut-offs, curve-fits and transformation formulas
- \* More than 20 different report formats
- \* Auto Lamp adjustment and auto calibration
- \* Support keyboard and mouse with USB interfaces
- \* Stable memory stores up to twenty million test data, 500 test projects.



**Optional** LED Light (lifetime warranty)  
Incubation

## Technical Specification

Microplate types: 96/ 48 -well plate  
 Photodetector: Silicon Photodiode  
 Light source: 8v/50w Controlled tungsten halogen lamp OR **LED light**  
 Wavelength range: 400nm~800nm  
 Standard filters: 405,450,492,630nm & 4 optional  
 Reading range: 0.000~4.000A  
 Resolution: 0.001A  
 Accuracy:  $\pm 0.008A$   
 Reproducibility:  $\leq 0.2\%$   
 Stability:  $\pm 0.003A$   
 Reading Speed : Single Wavelength  $\leq 3s$  ; Double Wavelength  $\leq 6s$   
 Shaking: Linear Shaking , 3 speeds  
 Printer : Built-in Thermal Printer, optional external printer  
 Interface connections: DVI, VGA, NETWORK INTERFACE, USB, AUDIO INTERFACE, RS-232  
 Power supply: 100~240V, 50~60Hz  
 Dimensions: 460(L) x 350(W) x 197(H) mm  
 Net weight: 8kg

## Microplate Reader

Model	IMR-200	IMR-200c	IMR-200n
Standard Filter (nm)	405, 450, 492, 630		
Wavelength Range (nm)	400-800		
Operation	Touch screen、Connect to PC	Touch screen、Connect to PC	Only connect to PC
Reading Range (A)	0.000~4.000	0.000~4.000	0.000~4.000
Measurement Channel	8 Channels		
Reference Channel	1 Channels	No	No
Microcontroller	Intel CPU	ARM Core CPU	PIC Microcontroller
Test Item	More than 500	More than 500	Single machine without storage function, connected to PC can store more than 500
Test Data	More than 100,000 plates (96 holes)	2000 plates (96 holes)	More than 100,000 plates (96 holes) and need to connect to PC
Display	Touch Screen , 10.4" Color LED Display	Touch Screen, 7" High Resolution LCD Display	No
Communication Interface and Report Printing	USB port、RS232 serial port、DVI port、LAN port、VGA port、Built-in thermal printer	USB port、RS232 serial port、Parallel port printer interface、Built-in thermal printer	USB Port
LED Light	Optional	Optional	Standard
Incubation	Optional	Optional	Optional

## Microplate Washer

Model	IMW-320	IMW-330
Operation	Keys	Touch Screen
Cleaning Mode	Whole board mode, slat mode	
Cleaning Channel	8 or 12 channels	
Cleaning Frequency	1-99 times adjustable	
Soak Time	0-24 hours adjustable	
Plate Time	0-600 Seconds Adjustable	0-24 Hours Adjustable
Liquid Residue	$\leq 1 \mu L / \text{well}$	
Liquid Capacity	10-3000uL, 10uL for adjustable spacing	10-9999uL, 1uL for adjustable spacing
Filling Accuracy	$\leq 2\%$	
Aspiration Time	Adjustable From 0.1 To 9.9 Seconds	
Store	More than 100 custom plate washing programs	More than 400 custom plate washing programs
Cleaning Method	Two-Point Suction, Bottom Flushing, Cleaning Fluid Pressure Fine-Tuning	

## Microplate Washer IMW-330



### Main Features

- Large LCD display, menu designed for convenient use
- Whole plate wash or single strip wash
- Waste liquid overflow alarm function
- Low residual volume
- One-point, Two-point and Complete bottom wash
- Shaking and soaking function
- Flat, V-bottom or U-bottom plate and strips wash
- Large memory to store up to 48 user programmed wash protocols

### Technical Specification

- Input: 8 key membrane keyboard
- Display : High brightness LCD display screen
- Manifold: 8 pins and 12 pins
- Wash strips: 1~12 strip adjustable, Skip strip allowed
- Wash cycle: 1~99 times adjustable
- Soak time: 0~24h adjustable, step by 1s
- Shake time: 0~600s adjustable, step by 1s
- Residual volume:  $\leq 1\mu\text{L}/\text{well}$
- Liquid volume: 10~9999 $\mu\text{L}/\text{well}$
- Aspiration time: 0.1~9.9s
- Storage Capacity: More than 100 user defined wash board procedures
- Power supply: 220V, 50Hz
- Dimensions: 448(L) $\times$ 382(W) $\times$ 163(H)mm
- Net weight: 8kg
- Operating Environment :Temperature 5 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$ , Max humidity 80%



## Microplate Washer IMW-320



### Main Features

- Large touch screen, High touch sensitivity
- plate and strip wash adjustable
- Complete bottom wash and Shaking and Soaking function
- Can be paused during washing
- With 2-point aspiration, bottom wash, and fine adjustment of wash liquid pressure
- Line Wash function with adjustable washing time to avoid pipe block effectively.
- Suitable for Flat, V-bottom or U-bottom microplate
- Large memory to store up to 100 user programmed wash protocols.



### Technical Specification

- Manifold: 8 pins and 12 pins
- Wash mode: plate or strip
- Wash cycle: 1-99 times adjustable
- Wash strips: 1-12 strips adjustable, Skip strip allowed
- Soak time: 0-24h adjustable ,Step by 1(s or min)
- Shake time: 0-24h adjustable ,Step by 1(s or min)
- aspiration time: 0.1-9.9s
- Residual volume:  $\leq 1\mu\text{L}/\text{well}$
- Liquid volume: 10-3000 $\mu\text{L}$ , step by 1 $\mu\text{L}$