



# Microplate Reader

## One-Stop Solution




# Microplate Reader

Absorption-based detection modes have been the preferred mode of ELISA and are widely used in ELISA, protein analysis, nucleic acid quantification, and enzyme kinetics experiments.

MBI microplate reader series has fast plate reading speed, powerful functions and excellent performance, suitable for various medical laboratories, biological laboratories or central laboratories, etc.

## Microplate Reader Selection Guide

Model	MBIZLQ-100	MBIZLQ-100T
Detection mode	Absorbance	
Plate	96	
Light source	Halogen lamp	
Wavelength range	340-750 nm	
Wavelength selection	Filter	
Incubation temperature	--	RT+4 °C~50 °C
Screen size	7-inch	
System	Single-chip microcomputer	
Cuvette	--	--
Analysis software	Reader It-I	
Accessories	--	
		

## MBIZLQ-100 / MBIZLQ-100S Microplate

The MBIZLQ-100/MBIZLQ-100s is a high-quality light absorption microplate reader based on a filter, with a wavelength range of 340 nm~750 nm, suitable for scientific research and clinical applications. 7-inch touch screen color LCD display, no keyboard required, easy to use.

\* MBIZLQ-100S has additional incubation function, with temperature range is from RT+4 °C to 50

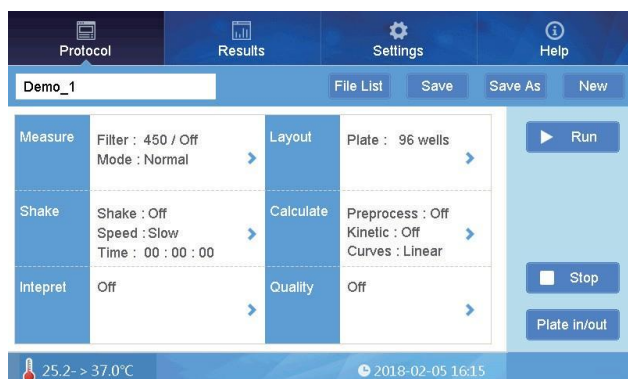
### Feature

- High-resolution 7-inch color touch screen, easy to operate, no keyboard required, easy to use;
- Multiple software configuration, which can be used as a single machine or connected with a computer, and the results are exported in real time;
- Absorbance range: 0.0~4.000 Abs, meeting different measurement requirements;
- 8-position filter wheel, standard 4 filters, optional other filters;
- The built-in software can provide instrument control and data analysis, and can be directly connected to a U disk;
- The detection speed is fast, and the whole 96-well microplate detection can be completed within 6 seconds.

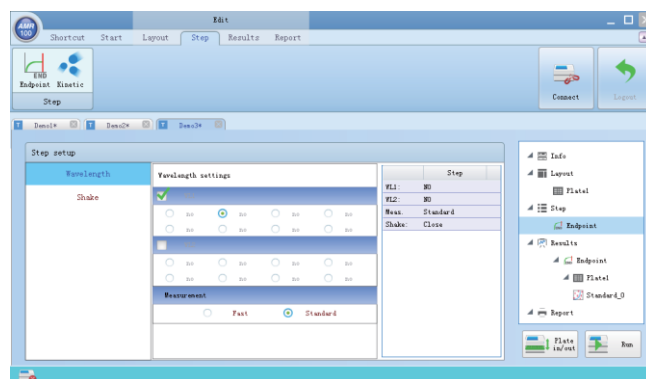


### MBIZLQ-100 Unique Advantages of Microplate Reader

- High-resolution 7-inch touch screen, simple and intuitive operation, no keyboard required;
- Visual layout, convenient and practical;
- The microplate reader is equipped with the standard control and data analysis software ReaderIt-I, which is convenient and quick for data detection;
- Powerful data analysis function and excellent result report, not only can run the analysis independently, but also run the analysis on the computer.



MBIZLQ-100S Operation Interface



ReaderIt-I Software Interface

## Product Parameter

Model	MBIZLQ-100	MBIZLQ-100S
Display	7 inch high resolution capacitive touch screen	
Light source	6 V, 10 W halogen lamp	
Wavelength range	340 nm~750 nm	
Optical filter	8-position filter wheel, standard 4 filters: 405 nm, 450 nm, 492 nm, 630 nm	
Absorbance range	0~4.0 Abs	
Resolution	0.001 Abs	
Linear range	$R^2 \geq 0.995$ absorbance range 0~3.0 Abs	$R^2 \geq 0.995$ [0,3 Abs]
Wavelength accuracy	$\leq \pm 2$ nm	
Absorbance repeatability	$CV \leq 0.3\%$ [0,3 Abs]; $CV \leq 1\%$ [3,4 Abs]	
Absorbance stability	$\leq 0.005$ Abs [0,3 Abs] $\leq 2.0\%$ [3,4 Abs]	$\leq \pm 0.005$ Abs [0,2 Abs] $\leq 0.3\%$ [2,3 Abs] $\leq 2.0\%$ [3,4 Abs]
Absorbance accuracy	$\leq \pm 0.005$ Abs [0,2 Abs] $\leq \pm 0.01$ Abs [2,3 Abs] $\leq \pm 1.5\%$ [3,4 Abs]	$\leq \pm 0.005$ Abs [0,2 Abs] $\leq \pm 1\%$ [2,3 Abs] $\leq \pm 1.5\%$ [3,4 Abs]
Sensitivity / detector	$\geq 0.01$ A / photodiode	
Measuring speed	6 s / 96-well plate, fast mode; single wavelength <15 s / 96-well, dual wavelength <28 s / 96-well (common mode)	
Incubation temperature range	--	RT+4 °C ~ 50 °C
Temperature accuracy	--	$\pm 0.5$ °C @ 37 °C
Temperature uniformity	--	$\pm 0.5$ °C @ 37 °C
User Interface	Built-in software, touch screen input, external mouse	
Internal storage	Can store 1000 measurement programs and measurement results	
Port	3×USB ports, connecting computer, printer and USB drive	
Power supply	AC100~240 V, 50~60 Hz, 2 A	
Dimension (W×D×H)	295×440×225 mm	
Net weight	10 kg	11 kg