

DEL-100 Microplate Reader

Molecular Biology Instruments

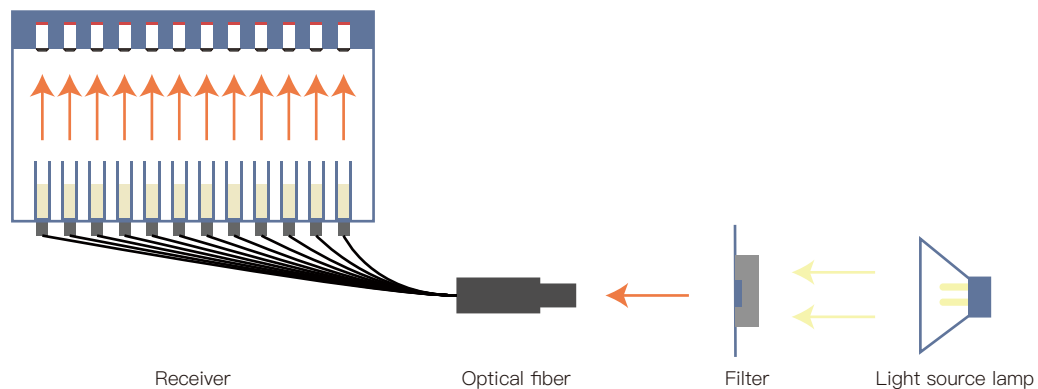
Introduction

DEL-100 Microplate Reader is a professional instrument for reading and analyzing the results of enzyme-linked immunosorbent assay (ELISA). The enzyme-linked immunosorbent reaction is carried out by an enzyme-catalyzed chromogenic substrate coupled to an antigen or antibody. The reaction result is displayed in color. The concentration of the antibody or antigen to be tested in the sample can be judged by the absorbance value, absorbance, negative and positive, etc.

Features

1. Using 10-inch high-resolution LCD capacitive touch screen, no need keyboard, simple and intuitive operation, easy to use.
2. Visual layout, humanized design, fast and intuitive standard blank, sample, negative and positive control and quality control, support multi-value control, convenient and practical.
3. 13-channel high-precision optical fiber measurement system, accurate and automatic positioning of the center of the enzyme label hole.
4. With a reference optical path system, the detection results are more stable and accurate.
5. 8-position filter wheel with 4 filters as standard, other filters are optional.
6. The built-in software can realize the detection of kinetics, standard curve, qualitative and quality control; the software includes program generation and storage, as well as detection data storage functions, with large storage capacity; powerful curve fitting, kinetic analysis and reporting functions.
7. The energy-saving design of the light source maximizes the life of the light source.
8. Has the function of self-checking and diagnosing the optical path, mechanical movement, etc.
9. With vibration plate function, the vibration plate time and speed are adjustable.
10. Single-wavelength, dual-wavelength detection, fast detection speed.
11. Can connect the U disk to output data, or connect to the printer to print data directly.
12. Built-in incubation function, the incubation temperature range is room temperature +4 °C ~ 65 °C.

Principle



User Interface



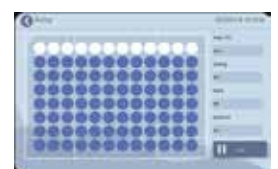
Main Interface



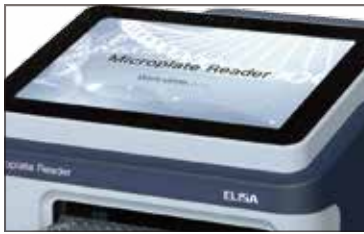
System Interface



Operation parameter setting



Operation interface



10 inch high-resolution LCD touch screen



With vibrating plate function



USB flash disk or printer can be connected



8-bit filter wheel



Parameters

Model	DEL-100	Absorbance accuracy (450nm)	[0.000~2.000Abs] $\leq \pm 0.005$ Abs; [2.000~3.000Abs] $\leq \pm 1\%$; [3.000~4.000Abs] $\leq \pm 1.5\%$
Display	10 inch high resolution capacitive touch screen		
Light source	6V 10W halogen lamp	Measuring speed	5s, 96 orifice plate, fast measurement mode Single wavelength < 7s/96 holes, dual wavelength < 15s/96 holes, accurate mode
Wavelength range	340~750nm		
Filter bandwidth	8~10 nm		
Plate shaking	Yes, three options for speed	Sensitivity/Detector	≥ 0.01 Abs/photodiode
Filter	8-bit filter wheel, 4 standard filters: 405nm, 450nm, 492nm, 630nm, other filters are optional	Number of program storage	5000 pcs (support U disk mass storage)
		Interface USB	Connect the Printer and U Disk
Absorbance range	0~4.000Abs	Temp. accuracy @ 37 °C	$\pm 0.5^\circ\text{C}$
Linear range (450)	$R^2 \geq 0.995$ [0.000~3.000Abs]	Temp. uniformity @ 37 °C	$\pm 0.5^\circ\text{C}$
Incubation Temp. range	R. T. +4 °C~65 °C	Voltage	100~240VAC 2.3A 50/60Hz
Resolution	0.001Abs	Power	200W
Wavelength accuracy	$\leq \pm 2$ nm	Fuse	250V, 2A Φ 5x20
Absorbance repeatability (450nm)	[0~3Abs] CV $\leq 0.3\%$ [3~4Abs] CV $\leq 1\%$	Dimensions	W.300 x D.430 x H.232mm
		Weight	10kgs