

Elisa Microplate Reader



Description

It's a high-quality microplate reader based on a monochromator with a wavelength range of 200~1000nm. It can be used for spectral scanning, endpoint method and kinetic detection. Suitable for 96-well plates and 384-well plates with and without lids.

High Quality Data and Stable Performance

- Double beam optical system has the reference optical channel system, which make the data more stable.
- After the instrument is started, the light source, grating, detector, position, etc. are automatically calibrated to ensure stable and reliable operation of the instrument.
- Long life xenon lamp which can be used for 109.

Choose Detection Wavelength Freely with Raster

It adopts the xenon flash lamp as light source, which chooses the wavelength range from 200-1000nm with 1nm step by grating monochromator for the full spectrum scanning.

U-Nano Ultra-Micro Plate (Optional)

- Quickly complete high-throughput quantification of micro nucleic acid and proteins without samples dilution.
- Independent lower computer software, can quickly read the sample concentration and purity report.
- 1~16 samples can be detected at the same time, only 2~4μL sample volume is needed.
- During continuous testing, you only need to wipe off the last batch of samples with dust-free paper.
- Printer: Connect the printer through the PC end.

Powerful and Flexible Software

- User authority classification.
- Powerful data analysis and process.
- Standard curve library.
- FTP (File transfer protocol).
- Multiple report export types.
- Printer: Connect the printer through the PC end.

Cuvette Mode (only for ELMR-F200H)

- Independent cuvette slot.
- Detection wavelength 200~1000nm.
- With incubation function, RT.+4 °C ~45 °C.
- Independent cuvette software can be directly used for endpoint method, kinetics, spectral scanning and standard curve establishment.

Specification

Model	ELMR-F200	ELMR-F200H
Cuvette Mode	NO	YES
Microplate Type	96/384 wells	
Detection Mode	Absorbance	
Light Source	Xenon flash lamp/number of flashes>109	
Wavelength Range	200~1000nm	
Wavelength Accuracy	2nm	
Wavelength Repeatability	0.2nm	
Optical System	Monochromator, 1nm step	
Reading Range	0~4.0OD	
Bandwidth	<2.5nm	
Detection System	2 silicon photodetectors, one for measurement, one for reference	
Linear @450nm	R2≥0.999, [0.0-3.0 Abs]	
Absorbance Accuracy @450nm	± (1.0 %+0.003 Abs), (0 ~2.0 Abs]; ± 2.0 %, (2.0 ~ 2.5 Abs]	
Absorbance Repeatability @450nm	CV<0.5 % or SD<0.003 accurate mode; CV<1.0% fast mode	
Measuring Speed	96-well plate: fast mode <8 seconds, accurate mode <28 seconds (end point method)	
Shaking	Linear, 3 speeds adjustable	
Temperature Range	RT.+4 °C~45 °C	
Temp. Accuracy & Uniformity	±0.5°C @37°C, ±0.5°C @37°C	
User Interface	Built-in software, independent use	
Optional	ReaderIt-II software, u-Nano Ultra-Micro Plate, ABS Optical Performance Validation Board	
Operation Display	Touch screen input, Android system, 10-inch LCD display full board information, can be connected with keyboard and mouse	
Internal Storage	16 G storage, can store more than 20,000 data files	
Port	1 type B USB interface, 2 type A USB interfaces, 1 network port	
Robotic Arm Compatibility	Temporarily incompatible	
Electricity	DC 24 V, 6.67 A	
External Dimension(W×D×H)	300×500×260 mm	
N.W./G.W.	15.5kg/21kg	
Package Dimension(W×D×H)	690×490×500mm	