AMR-100 / AMR-100T

Microplate Reader



Product Introduction

AMR-100 / AMR-100T 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.

AMR-100T has additional incubation function, with temperature range is from RT. +4 °C to 50 °C

Features

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



AMR-100T Operation Interface

AMR-100 / AMR-100T Unique Advantages

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



ReaderIt-I Software Interface

Specification

Model	AMR-100	AMR-100T
Display	7 inch high resolution o	capacitive touch screen
Light source	6 V, 10 W h	alogen lamp
Wavelength range	340 nm ~	~ 750 nm
Optical filter	8-position filter wheel, standard 4 filter	rs: 405 nm, 450 nm, 492 nm, 630 nm
Absorbance range	0-4.0) Abs
Resolution	0.001	1 Abs
Linear range	R² ≥0.995 absorbance range 0~3.0 Abs	R² ≥0.995 [0,3 Abs]
Wavelength accuracy	≤±2	nm
Absorbance repeatability	CV≤0.3 % [0,3 Abs); CV≤1 % [3,4 Abs)	
Absorbance stability	≤0.005 Abs [0,3 Abs) ≤2.0 % [3,4 Abs)	≤±0.005 Abs [0,2 Abs) ≤0.3 % [2,3 Abs) ≤2.0 % [3,4 Abs)
Absorbance accuracy	≤±0.005 Abs [0,2 Abs) ≤±0.01 Abs [2,3 Abs) ≤±1.5 % [3,4 Abs)	≤±0.005 Abs [0,2 Abs) ≤±1 % [2,3 Abs) ≤±1.5 % [3,4 Abs)
Sensitivity / detector	≥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		±0.5 °C @ 37 °C
Temperature uniformity	-	±0.5 °C @ 37 °C
User Interface	Built-in software, touch scr	reen input, external mouse
Internal storage	Can store 1000 measurement pro	ograms and measurement results
Port	3×USB ports, connecting con	nputer, printer and USB drive
Power supply	AC 100-240 V, 50-60 Hz, 2 A	
Dimension (W×D×H)	295×440×225 mm	
Net weight	10 kg	11 kg

Ordering Information

Code	Description
AS-16050-00	AMR-100 microplate reader
AS-16060-00	AMR-100T microplate reader
AS-16051-01	Optical filter 340 nm
AS-16051-02	Optical filter 380 nm
AS-16051-03	Optical filter 405 nm
AS-16051-04	Optical filter 415 nm
AS-16051-05	Optical filter 450 nm
AS-16051-06	Optical filter 492 nm
AS-16051-07	Optical filter 540 nm
AS-16051-08	Optical filter 570 nm
AS-16051-09	Optical filter 578 nm
AS-16051-10	Optical filter 590 nm
AS-16051-11	Optical filter 595 nm
AS-16051-12	Optical filter 630 nm
AS-16051-13	Optical filter 650 nm
AS-16051-14	Optical filter 690 nm
AS-16051-15	Optical filter 470 nm
AS-16051-16	Optical filter 490 nm

Code	Description
AS-16051-17	Optical filter 510 nm
AS-16051-18	Optical filter 520 nm
AS-16051-19	Optical filter 532 nm
AS-16051-20	Optical filter 546 nm
AS-16051-21	Optical filter 560 nm
AS-16051-22	Optical filter 562 nm
AS-16051-23	Optical filter 600 nm
AS-16051-24	Optical filter 620 nm
AS-16051-25	Optical filter 646 nm
AS-16051-26	Optical filter 663 nm
AS-16051-27	Optical filter 700 nm
AS-16051-28	Optical filter 750 nm
AS-16051-50	Halogen lamp
AS-16051-51	Printer
AS-16051-52	Printer paper
AS-16051-53	ABS optical performance validation board
AS-16051-54	ReaderIt-I analysis software