

AMR-100/AMR-100T Microplate Reader

The 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 medical record certificate No.: Zhejiang machinery registration permission 20182400109

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

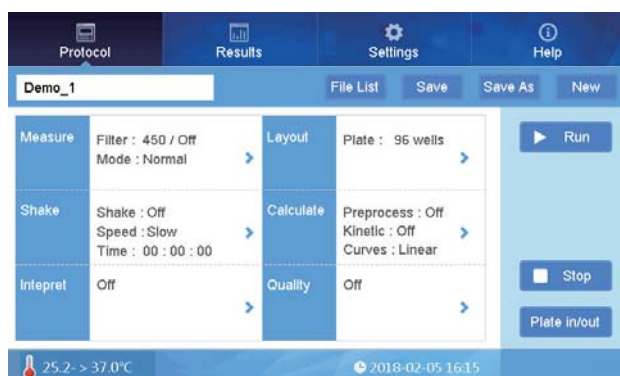
Feature

- 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.

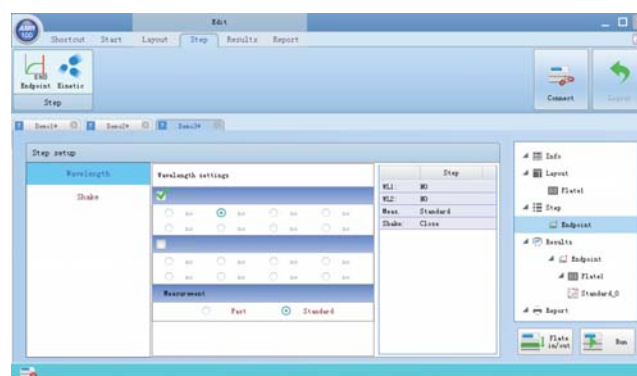


AMR-100 Unique Advantages of Microplate Reader

- 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.



AMR-100T Operation Interface



ReaderIt-I Software Interface

Product Parameter

Model	AMR-100	AMR-100T
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 ≤ 0.3 % [0,3 Abs]; CV ≤ 1 % [3,4 Abs]	
Absorbance stability	≤ 0.005 Abs [0,3 Abs] ≤ 2.0 % [3,4 Abs]	$\leq \pm 0.005$ Abs [0,2 Abs] ≤ 0.3 % [2,3 Abs] ≤ 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	≥ 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 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

Ordering Information

Code	Product Description	Code	Product Description
AS-16050-00	AMR-100 microplate reader	AS-16051-17	Optical filter 510 nm
AS-16060-00	AMR-100T microplate reader	AS-16051-18	Optical filter 520 nm
AS-16051-01	Optical filter 340 nm	AS-16051-19	Optical filter 532 nm
AS-16051-02	Optical filter 380 nm	AS-16051-20	Optical filter 546 nm
AS-16051-03	Optical filter 405 nm	AS-16051-21	Optical filter 560 nm
AS-16051-04	Optical filter 415 nm	AS-16051-22	Optical filter 562 nm

Code	Product Description	Code	Product Description
AS-16051-05	Optical filter 450 nm	AS-16051-23	Optical filter 600 nm
AS-16051-06	Optical filter 492 nm	AS-16051-24	Optical filter 620 nm
AS-16051-07	Optical filter 540 nm	AS-16051-25	Optical filter 646 nm
AS-16051-08	Optical filter 570 nm	AS-16051-26	Optical filter 663 nm
AS-16051-09	Optical filter 578 nm	AS-16051-27	Optical filter 700 nm
AS-16051-10	Optical filter 590 nm	AS-16051-28	Optical filter 750 nm
AS-16051-11	Optical filter 595 nm	AS-16051-50	Halogen lamp
AS-16051-12	Optical filter 630 nm	AS-16051-51	Printer
AS-16051-13	Optical filter 650 nm	AS-16051-52	Printer paper
AS-16051-14	Optical filter 690 nm	AS-19011-03	ABS optical performance validation board
AS-16051-15	Optical filter 470 nm	AS-16051-54	ReaderIt-I analysis software
AS-16051-16	Optical filter 490 nm		

APW-200 Microplate Washer

Microplate washer is an automatic plate washer for washing 96-well microplate. compact construction, efficient washing and durable, it is suitable for the washing of flat bottom, U-shaped bottom, v-shaped bottom, c-shaped bottom of various specifications. It has various special functions selected and matched by other board washer. The programmed design is especially suitable for laboratory with heavy workload of multi-application of microplate. It can also be used to soak and shock.

Feature

- Low residual liquid, each well $\leq 1 \mu\text{L}$;
- 4.3 inch color LCD display, easy to operate;
- Microplate can be soaked and shocked simultaneously;
- Strainer in the pipeline and automatic washing functions avoid the liquid blocking the pipeline;
- Pipeline flushing and distilled water washing functions can be set, flushing time and number of spacers can be adjusted;
- With pause function, you can continue to complete the rest of washing procedures;
- Washing bottle has uniform volume calibration line, alarm function to avoid the washing liquid used up or waste liquid from overflow;
- 100 programs can be save.



Easy Operation

- The APW-200 microplate washer has 4.3 inch LCD display with friendly interface, U-disk can be to transfer the datas between the PC and the washer or between two washers, it can also be used to upgrade the software. The washing head can be replaced easily for different kinds of microplates.

Safety and Reliable Feature

- The APW-200 microplate washer is equipped with liquid position sensor to avoid the washing liquid used up or waste liquid from overflow, minimize the risk and avoid the liquid being sucked into the pump to break the equipment. Besides it has shaking function, which can improve the washing efficiency.