

# MICROPLATE READER

## GEN-AMR-100

The AMR-100 Microplate Reader, with a wavelength range of 340–750nm, is a high-performance solution for a wide range of applications, including immunoassays with colorimetric substrates, such as ELISA, and protein assays such as Bradford and Lowry. It is designed for applications within the clinical, biotechnology research and pharmaceutical laboratory.

- ❖ Easy of use with 7 inch touch screen together with 3 external keys
- ❖ A broad wavelength range of 340-750nm
- ❖ Able to use individually or connect with PC and export results or a PAD with Android system
- ❖ Absorbance range: 0.0~4.000Abs
- ❖ 8 positions optical filter wheel, equipped with 4 standard optical filters
- ❖ Fast and accurate measurement of 96-well plates within 6 seconds
- ❖ Convenient built-in shaker
- ❖ Wide-format internal thermal graphical printer
- ❖ Wide applicability for life science and clinical laboratories
- ❖ Additional reference channel for optimized light intensity
- ❖ Endpoint, kinetic and multi-label measurements for a variety of applications
- ❖ Shaking with variable time and speed
- ❖ PC software, APP software and built-in software for powerful and validated data analysis



## TECHNICAL SPECIFICATION

| Model                     | GEN-AMR-100                                |
|---------------------------|--------------------------------------------|
| Display                   | 7 inch touch screen (800x480 dots)         |
| Light source              | Quartz-halogen lamp 6V/10W                 |
| Wavelength                | 340-750nm                                  |
| Optical filter            | Equipped with filters: 405,450,492,630nm   |
| Half-bandwidth of filters | 3~9nm                                      |
| Read-out range            | 0~4.000Abs                                 |
| Linearity (405nm)         | 0~2.000Abs ≤±1%<br>2~4.000Abs ≤±2%         |
| Resolution                | 0.001Abs                                   |
| Accuracy (405nm)          | ±1% (0-3Abs)<br>±2% (3-4Abs)               |
| Precision(405nm)          | CV≤0.2% (0-3Abs)<br>CV≤1.0% (3-4Abs)       |
| Test speed                | <6s for 96 wells plate                     |
| Incubator                 | No                                         |
| Shaking                   | 3 modes shaking: slow, medium and fast     |
| User interface            | Integrated software or PC control software |
| Operation                 | Touch screen, 3 pcs external keys          |
| Storage                   | 200 programs and 100,000 test records      |
| Ports                     | 3 USB ports, for PC, printer and USB-disk  |
| Dimensions(W x D x H)     | 440 x 295 x 225 mm                         |
| Weight                    | 10 kg                                      |

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