

zygon

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ZMR-100 AAA

MICROPLATE READER



Microplate Reader

- It is controlled by external computer to complete edit, save, test, print efficiently and conveniently.
- 8 channels zero dispersion monochromatic optical fibre testing system, automatic well centre positioning.
- High-precision rail transmissions, enclosing optical system, test 96 wells in 3 seconds
- System self-check and diagnosis function for optical paths and mechanical parts.
- Shaking function, adjustable shaking speed and time.
- New Windows graphical user interface, operation system in English.
- Specimen information records: lists and cards, directly input specimen number, Patient Name, etc.
- Specimen No., OD value, result, S/CO value and item parameters can be shown in the same screen.
- Quick tagging blank, specimen, positive control, quality control, multi-valued comparison.
- Arrange 96 well microplate horizontally or longitudinally, set up, optionally the start bit and stop bit in testing, autocoding.
- Suitable for self contrast, rows and column subtraction, input judgement formula freely.
- Qualitative and quantitative parameters, the storeable standard curve can be used directly.
- Multi-item can be tested on one microplate (up to 12 item)
- Report according to microplate no. or specimen no., input experimental items and results in batches.
- Inquiry and statistic analysis can be done according to the specimen number and name, automatically track and analyse changing trends in data
- Test data can be saved in MS Excel for further analysis.

Light Source	6V, 10W tungsten halogen lamp, it can work over 5000 hours
Wavelength Range	400-750 nm
Optical Filters	4 standard filters: 405, 450, 492, 630 nm, maximum 8 filters
Measurement Methods	Single Wavelength, Dual Wavelength, two point method, dynamic assay, multiple wavelengths
Blank Ways	Single well blank, multiple wells blank, rows and columns blank
Calculation Method	Absorbance, Single point calibration, linear regression, quadratic curve, four parameters equation
Measurement Speed	Single Wavelength < 3 seconds/96 wells, dual wavelength < 9 seconds/96 wells
Measurement Range	0.0000-4.5000Abs
Resolution	0.0001A
Linearity	±0.5% or <0.025 A
Repeatability Difference	< 0.1% or ±0.0025A
Rows and Columns Difference	< 0.01 A
Display	Controlled by external computer, shows whole microplate results and calibration curve
Save Information	More than 300 test programs, results of 50 pieces of 96 well, 100000 test results
Interface	1 USB two-way communication interface
Environment	Power Supply: 12V DC (100V-240V Wide Input Voltage Range); Temperature: 5°C-40°C, Humidity: 10%-90%