

## *TopRead 4000* Microplate Reader



### Main Features

- Biochromatic optic system with 4 wavelengths
- Touch screen.easy to use
- Compatible with various microplate such as flat plate ,Uplate and V plate etc.
- Automatic calibration, plus efficient alarm function
- Quick testing,user friendly,reliable
- Various testing method which support qualitative test,quantitative test,grade test and kinetic quantitative test.
- Multi standard calibration, able to choose different formula such as linearity,quadratic curve,power function curve,exponential function curve, logarithmic function,cubic spline curve.
- Several blank mode can be selected
- Plate shake function can be adjusted
- Compact design,with internal thermal printer

## SPECIFICATION

Display	240 × 128 LCD ( Touch Panel )
Suitable Microplate Type	96 wells, Flat bottom, U bottom, V bottom
Shake	3 kind of intensity
Memory	200 programs, 1000 plates result
Light Source	12V, 20W Halogen
Wavelength range	400nm to 750nm
Optical sensor	8 photodiode
Standard filters	interference filter 405, 450, 492, 630nm
Reading speed	single wavelength 5 sec.
Absorbance range	0.000 to 3.500 ABS
Resolution	0.001 ABS
96 wells accuracy	CV is less than 1.8% ( lower sample 0.200 ABS ) CV is less than 2.0% ( higher sample 2.000 ABS )
Single well accuracy	CV is less than 1.0% ( lower sample 0.200 ABS ) CV is less than 1.5% ( higher sample 2.000 ABS )
Linearity	0—2.000 coefficient more than 0.999 0—3.000 coefficient more than 0.99
Drift	0.010 ABS/20 min.
Internal printer	58mm thermal printer
Voltage	AC 100-260V, 50/60Hz
Power	75 VA
Working temperature	10°C – 30°C
Working humidity	less than 85%
Storage temperature	0°C – 55°C
Storage humidity	less than 95%