PR 4100 Absorbance Microplate Reader

The Next Generation Reader

The PR 4100 is the next generation 8-channel absorbance microplate reader by Bio-Rad. Along with its compact and innovative design, it provides accurate, reproducible and fast measurements. Controlled by a Notebook PC with Windows 7-based software, the system is validated with the complete menu of Bio-Rad EIA tests.

**Improved Reliability**
- Latest LED Technology for long life and maintenance free operation
- 8-channel absorbance microplate reader for fast measurements
- Comprehensive QC function with multichec plate

**Innovative Design**
- Compact footprint
- Standalone reader operated through a Notebook PC
- Windows® 7-based software

**Comprehensive Data Analysis Software**
- Validated protocols according to Bio-Rad quality assurance process
- Power Data Analysis with full qualitative and quantitative EIA analysis
- Full traceability

**New LIS Connectivity**
- Transfer to Laboratory Information Service for all Bio-Rad tests
- ASTM standard protocol
PR 4100 Absorbance Microplate Reader

Specifications
Reading head .................................................. 8 measurements, 1 reference channel
Light source ...................................................... LED, Self-calibrating
Measurement range ........................................... 0-4.0 OD
Wavelength range ............................................. 400-750 nm
Wavelength selection .......................................... Interference filters (wheel of 8 filters)
Supplied: 405, 450, 492, 550 and 620 nm
Bandwidth: 10 nm at 50% transmission
Measurement time:
Single wavelength ........................................... < 15 sec
Dual wavelength .............................................. < 20 sec
Accuracy (450/492 nm):
0.000 – 2.000 OD ........................................... Better than ± (1.0% + 0.010 OD)
2.000 – 3.000 OD ........................................... Better than ± (1.5% + 0.010 OD)
Precision (450/492 nm):
0.000 – 2.000 OD ........................................... Better than ± 1.0%
2.000 – 3.000 OD ........................................... Better than ± 1.5%
Linearity (450/492nm):
0.000 – 2.000 OD ........................................... Better than +/- 1.0 %
2.000 – 3.000 OD ........................................... Better than +/- 1.5 %
Resolution ......................................................... 0.0001 OD
Shaking ............................................................. Linear shaking in 4 different modes

Computer & Software
Operating system .............................................. Windows® 7
Software ........................................................ Magellan Tracker

Physical Data
Size in inches (H x W x D) .................................. 5.3 x 13.7 x 7.4
Weight ............................................................. 5.7 lbs

Electrical
Main power input .............................................. Basic instrument with AC adapter
External power supply ................................ 100-240V AC: 50/60 Hz (Auto sensing), max 1.2 A
Power consumption:
Standby mode .................................................. Approx 12 VA
Operational mode ............................................. Max 30 VA

Software Language
English

Optional
Wide range of filters
Calibration test plate with software (Multicheck plate)

PR 4100 is Part of a Complete System for ELISA Tests

PR 4100 Absorbance Microplate Reader
PW41 Microplate Washer
IPS Microplate Incubator

Ordering Information
Catalog No. Description
45591587 PR 4100 Absorbance Microplate Reader (includes AC Adaptor) ........................................... 1 unit