



PR 4100 Absorbance Microplate Reader

The Next Generation Reader

The PR 4100 microplate reader is the next generation 8-channel absorbance microplate reader by Bio-Rad. It provides accurate, reproducible and fast measurements out of a compact and innovative design. Controlled via 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 multicheck plate

Innovative Design

- Compact foot-print
- 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
- Complies with 98/79 EC IVD-D & FDA 21 CFR part 11



PR 4100 Absorbance Microplate Reader

Specifications

Reading head	8 measurements, 1 reference channel
Light source	4 Lights Emitting Diodes (LED)
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 ± (0.5% + 0.005 OD)
2.000-3.000 OD	Better than ± (1.0% + 0.005 OD)
Linearity (450/492 nm):	
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 mm (H x W x D)	134 x 347 x 189
Weight	2.6 kg

Regulation

CE-IVD & FDA 21 CFR part 11 compliant

Electrical

Main power input	Basic instrument with AC adapter
External power supply	100-240 V 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, French, German, Italian, Portuguese, Spanish, Russian, Chinese

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



PW40
Microplate Washer



IPS
Microplate Incubator

Ordering Information

Catalog No.

94196

Description

PR 4100 Microplate Reader includes Notebook mini-PC, 405, 450, 550, 492, 620 nm filters, USB key with Bio-Rad pre-programmed methods (APF) with manuals and software1 unit

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Laboratories**

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