


# 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® 10-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 footprint
- Standalone reader operated through a Notebook PC
- Windows® 10-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



Notebook PC with Windows® 10-based software

BIO-RAD

# 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)<br>Supplied: 405, 450, 492, 550 and 620 nm<br>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% |
| 2.0003.000 OD | Better than ± 1.5% |
| Resolution | 0.0001 OD |
| Shaking | Linear shaking in 4 different modes |

## Computer & Software

| | |
|---|---|
| Operating system | Windows® 10 |
| 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 (autosensing), 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. | Description |
|---|---|
| 94196B | PR 4100 Microplate Reader includes 405, 450, 550, 492, 620 nm filters<br>USB key with Bio-Rad pre-programmed methods (APF) with manuals and software.....1 unit |

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***Website*** *www.bio-rad.com/diagnostics* ***U.S.*** *1-800-224-6723* ***Australia*** *+61(2)9914-2800* ***Austria*** *+43-1-877-8901* ***Belgium*** *+32(3)710-53-00* ***Brazil*** *+55(31)3689-6600* ***Canada*** *1-514-334-4372* ***China*** *+86 21 6169 8500* ***Czech Republic*** *+420-241-430-532* ***Denmark*** *+45-4452-1000* ***Finland*** *+358-9-804-22-00* ***France*** *+33-1-47-95-60-00* ***Germany*** *+49(0)89-318-840* ***Greece*** *+30-210-7774396* ***Hong Kong*** *+852-2789-3300* ***Hungary*** *+36-1-459-6100* ***India*** *+1800-180-1224* ***Israel*** *+972-3-9636050* ***Italy*** *+39-02-216091* ***Japan*** *+81-3-6361-7070* ***Korea*** *+82-2-3473-4460* ***Mexico*** *+52(55)5488-7670* ***The Netherlands*** *+31-318-540666* ***New Zealand*** *+64-9-415-2280* ***Norway*** *+47-23-38-41-30* ***Poland*** *+48-22-3319999* ***Portugal*** *+351-21-472-7700* ***Russia*** *+7-495-721-1404* ***Singapore*** *+65-6415-3170* ***South Africa*** *+27-11-442-85-08* ***Spain*** *+34-91-590-5200* ***Sweden*** *+46-8-555-127-00* ***Switzerland*** *+41(0)26-674-55-05/06* ***Taiwan*** *+886-2-2578-7189* ***Thailand*** *+662-651-8311* ***United Kingdom*** *+44(0)20-8328-2000*

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