



Byonoy ELISA Reader

The Market's Most Compact Microplate Reader with Unparalleled Usability

The Byonoy ELISA reader is a microplate reader for 96-well assays. Its unique design, featuring 96 individual detection units, ensures the device is highly compact, robust, and reliable.

The small footprint means it can be easily transported within or between different laboratories, giving you complete flexibility. In the often-crowded setting of the modern laboratory, the Byonoy ELISA reader aids in decentralizing important workflows. It increases access to instrumentation and brings readout directly to your workspace.

The Absorbance 96 App

The intuitive operation is an integral part of the Absorbance 96 App. Parting from tradition, the software features a modern interface with smooth navigation and a logical flow.

Main Software Features

- No license fees, unlimited number of devices
- Generate custom protocols
- Perform qualitative or quantitative experiments
- Plot standard curves and perform advanced data analysis
- Export results as PDF or .csv file.



Features and Benefits

- Highly compact, robust, and reliable
- Features 96 individual detection units for simultaneous signal detection
- Precise and accurate results
- Small footprint – 7 times smaller than the smallest comparable reader
- Easily transported within or between different laboratories
- Powered via USB
- Covers the following wavelengths: 405 nm, 450 nm, 492 nm, 630 nm
- Maintenance-free, solid state design
- No license fee for software use



Specifications

General

Detection method	Absorbance
Detection mode	Endpoint, kinetic
Microplates types	96-well microplates

Measurement

Light source	Up to 4 LEDs
Detector	96 photodiodes
Wavelength	405 nm, 450 nm, 492 nm, 630 nm
Photometric range	0.0 – 4.0 OD
Linearity	405 nm: $\leq 1.5\%$ from 0.0 – 2.0 OD; $\leq 3.0\%$ from 2.0 – 3.0 OD ≥ 450 nm: $\leq 1.0\%$ from 0.0 – 2.0 OD; $\leq 1.5\%$ from 2.0 – 3.0 OD
Accuracy	405 nm: $\leq 1.5\% + 0.010$ OD from 0.0 – 2.0 OD; $\leq 3.0\% + 0.010$ OD from 2.0 – 3.0 OD ≥ 450 nm: $\leq 1.0\% + 0.010$ OD from 0.0 – 2.0 OD; $\leq 1.5\% + 0.010$ OD from 2.0 – 3.0 OD
Reproducibility	$\leq 0.5\% + 0.005$ OD from 0.0 – 2.0 OD; $\leq 1\% + 0.010$ OD from 2.0 – 3.0 OD
Resolution	0.001 OD
Read time	Down to 3 sec. at single wavelength
Data output	USB 2.0 interface with PC

Physical characteristics

Dimensions	9.6 x 15.4 x 5.5 cm (W x L x H)
Weight	900 g
Power supply	USB connection 5 V
Power consumption	2.5 watts

Software features

Operating systems	Microsoft Windows, macOS
Measurement modes	Endpoint, Kinetic
Evaluation methods	Quantitative, Qualitative
Regression methods	Point-to-Point, Linear, Four Parameter Logistic (4PL), Five Parameter Logistic (5PL)
Export formats	PDF, CSV

Ordering Information

Item	Description	Item No.
Byonoy ELISA Reader	Microplate reader	10007118