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Absorbance 96
A New Category of Plate Reader



Take The Lab Into Your Hands



The Absorbance 96 is a microplate reader for 96-well assays. Its unique design with 96 individual detection units makes the device highly compact, robust, and reliable.

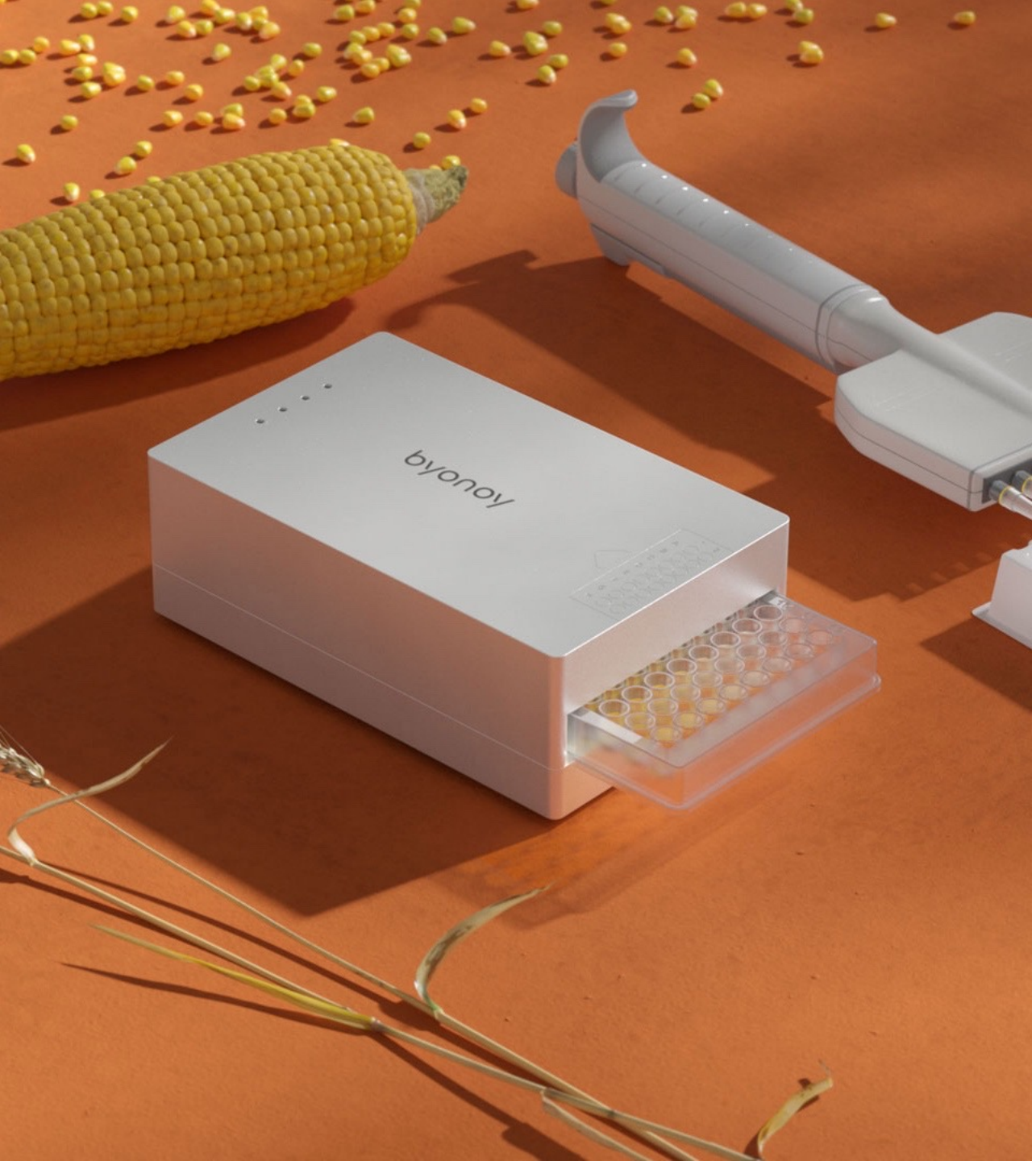
The small footprint means it can be easily transported within or between different laboratories, giving you complete flexibility. In the often-crowded setting of the modern laboratory, the Absorbance 96 helps decentralize important workflows, increasing access to instrumentation and bringing readout to your workspace.

900 g
Weight

7 x smaller
than the smallest comparable reader

Powered via USB

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Your Assay
Your Reader

Its flexibility allows the Absorbance 96 to be used in new and exciting ways. Thanks to the compact size, it can be seamlessly integrated into space-restricted areas such as incubators or anaerobic chambers, allowing organisms to be studied in their ideal environment.

Despite its compact form, the Absorbance 96 delivers precise and accurate results at an affordable price.
A variety of available wavelength combinations allows for a wide range of endpoint and kinetic assays.

Principal Applications

ELISAs – PNPP, ABTS, OPD, TMB
Protein assays – Bradford, BCA, Lowry
Cell-based assays – MTT, XTT, OD600

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Maintenance-free Solid State Design



The Absorbance 96 is the first microplate reader on the market to contain 96 individual detection units. This technology enables simultaneous signal detection, resulting in extremely fast photometric measurements.

Without the need to scan across multiple wells, the Absorbance 96 requires no moving parts. In combination with long-life LEDs, the solid state technology provides a maintenance-free user experience and ensures reliable, high quality results.

96	4	3 sec.
Detection Units	LEDs	Read Time Capability

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Unparalleled Usability



Byonoy's philosophy of 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

macOS Windows Plug & Play

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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 selection	Example combinations (FWHM 10 nm): 450, 492, 562, 620 nm / 405, 450, 540, 630 nm / 492, 562, 605, 650 nm. Other filter combinations in the range of 400–1000 nm possible.
	Photometric range	0.0–4.0 OD
	Linearity	405 nm: ≤ 1.5 % from 0.0–2.0 OD; ≤ 3.0 % from 2.0–3.0 OD ≥ 450 nm: ≤ 1.0 % from 0.0–2.0 OD; ≤ 1.5 % from 2.0–3.0 OD
	Accuracy	405 nm: ≤ 1.5 % + 0.010 OD from 0.0–2.0 OD; ≤ 3.0 % + 0.010 OD from 2.0–3.0 OD ≥ 450 nm: ≤ 1.0 % + 0.010 OD from 0.0–2.0 OD; ≤ 1.5 % + 0.010 OD from 2.0–3.0 OD
	Reproducibility	≤ 0.5 % + 0.005 OD from 0.0–2.0 OD; ≤ 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

Specifications

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

Reenvision Laboratory



Contact us:

bioNova científica, s.l.

Tel.: 915 515 403
e-mail: info@bionova.es

www.bionova.es

byonoy