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Absorbance 96

A New Category of Plate Reader
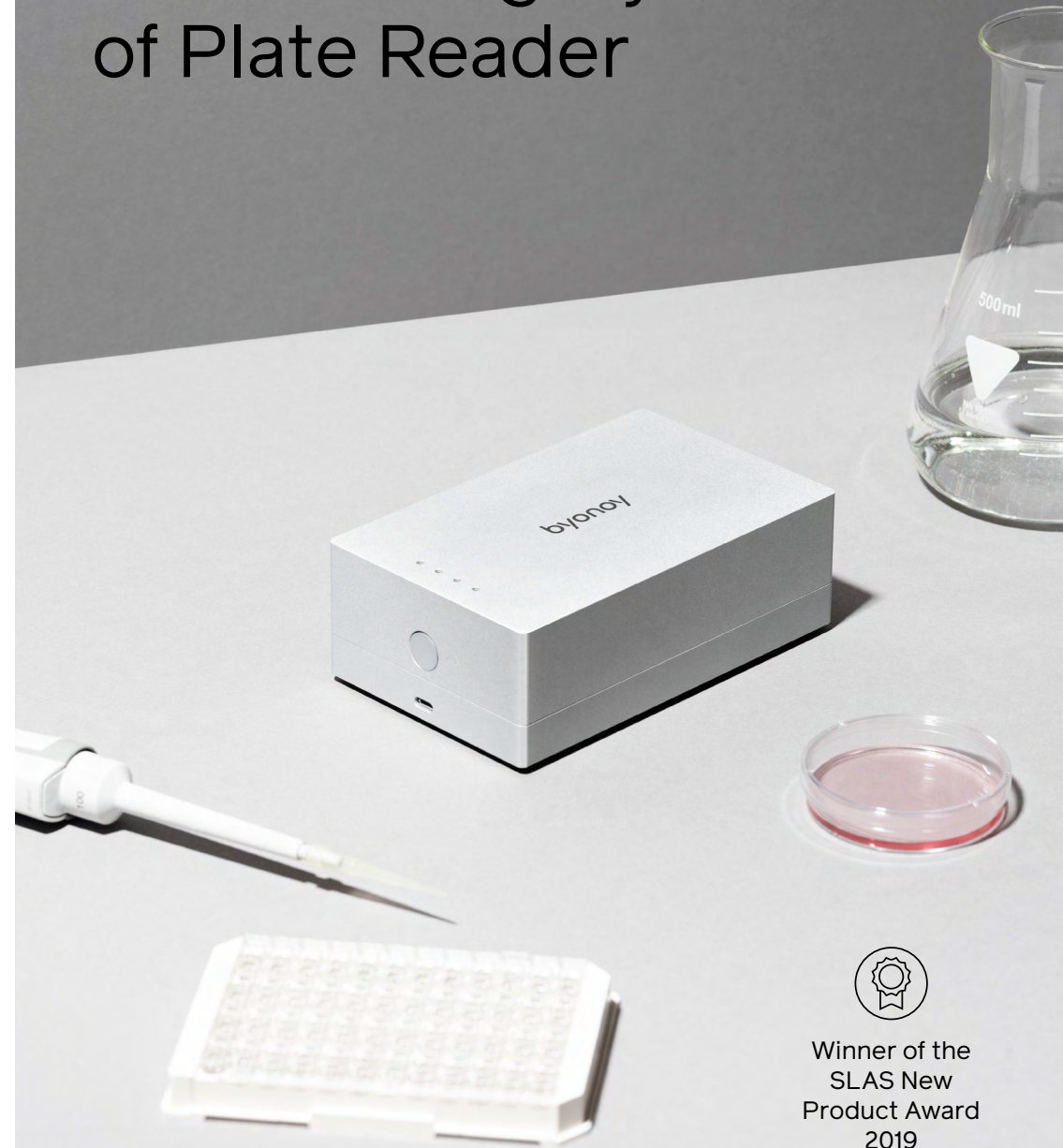
The vision behind the Absorbance 96 was to give the user complete flexibility. The result is a uniquely designed, solid state microplate reader with 96 detection units.

Being portable and by far the most compact reader on the market, the Absorbance 96 constitutes an exciting new category of plate reader.

Winner of the SLAS New Product Award 2019

Take the Lab into Your Hands

Despite its compact form, the Absorbance 96 delivers precise and accurate results at an affordable price. Its portability enables on-site readout, eliminating the need for sample transport. A variety of available wavelength combinations allows for a wide range of endpoint and kinetic assays.
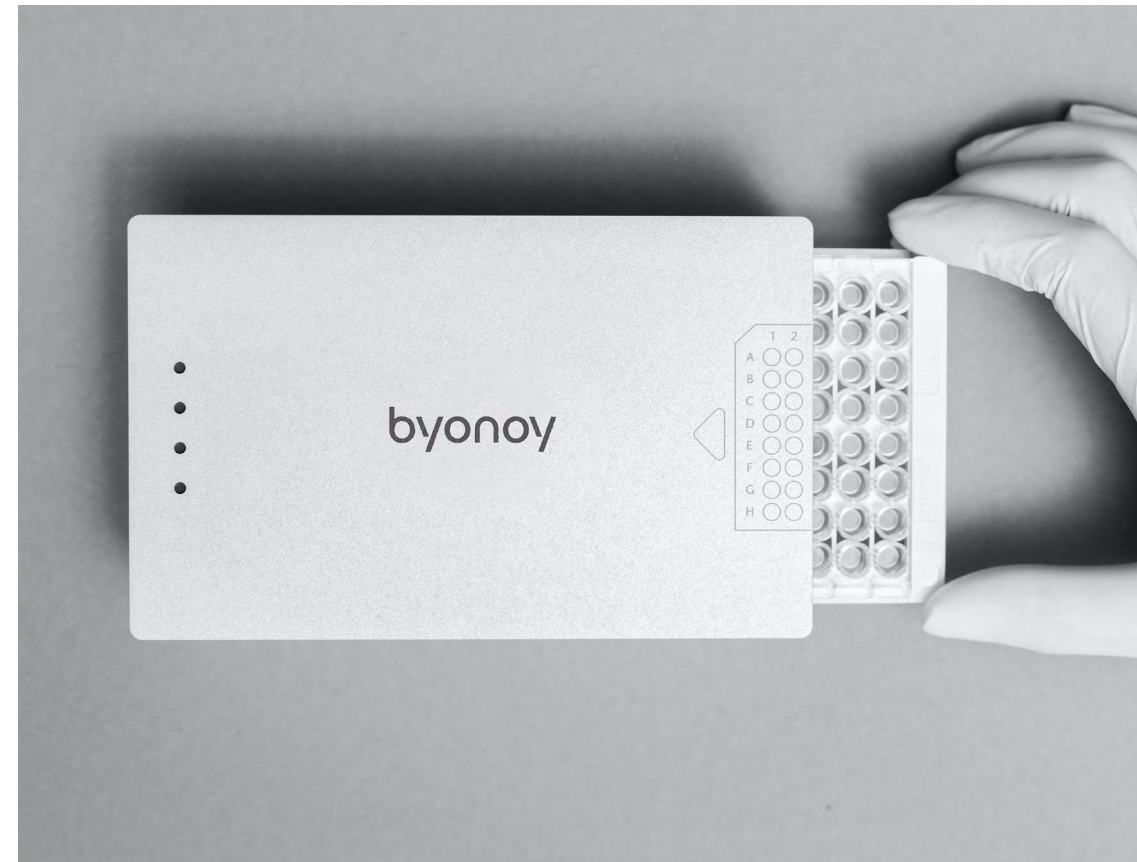
Principal Applications

ELISAs – PNPP, ABTS, OPD, TMB

Protein assays – Bradford, BCA, Lowry

Cell-based assays – MTT, XTT, Cell density

The Absorbance 96 is the only truly portable plate reader in the world. Easily transported within or between different laboratories, the Absorbance 96 brings readout to your workspace. Its robust design and USB power supply also make it the perfect tool for field use and mobile laboratories.

Main Features

Space-saving design

Fast readout speed

Reliable measurement results

Maintenance-free

Solid state technology

Absorbance 96

Innovative Compactness

One of the main ideas behind the Absorbance 96 is to simplify the workflow in the laboratory. The small size of the reader, in combination with the unique open design, leads to an entirely new user experience.

A simple USB connection provides both the power supply and access to the analysis software via plug-and-play. The footprint of the Absorbance 96 is almost as small as the microplate itself, thereby fitting into every lab, saving valuable bench space and providing unprecedented flexibility.

0,9 kg
Weight

7 x smaller
than the smallest comparable reader

Powered via USB

Plug & Play

Solid State Technology

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
Detection Units

4
LEDs

5 sec.
Read time capability

LED Sources + Filters

Light Distribution Unit

Lens array to parallelize the light

96 Photodiode Detectors

Lens array to focus the light
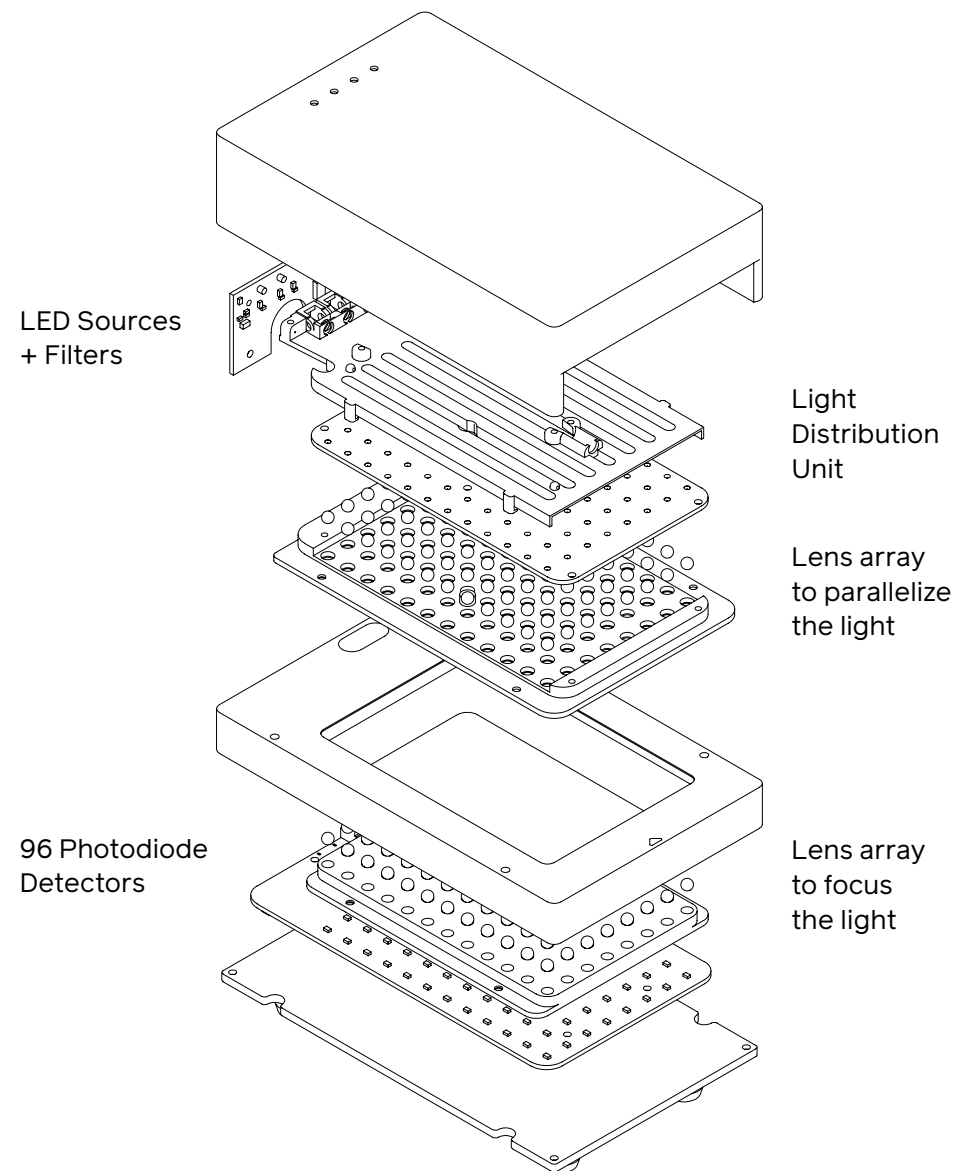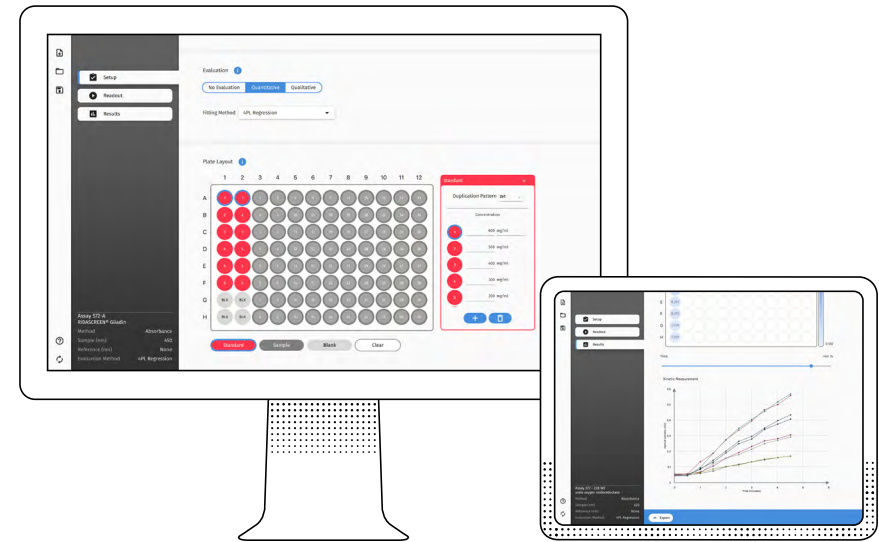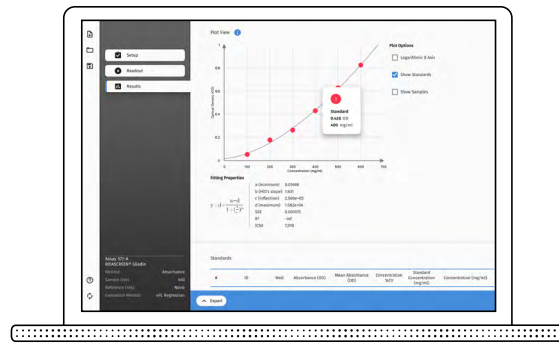
Absorbance 96

Plate-Readout Modernized

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

The Absorbance 96 software is as flexible as the reader itself. It can be used on multiple devices and supports Windows as well as macOS. With plug-and-play technology, simply connect the Absorbance 96 and start your assay.

Main Features

Endpoint and kinetic assays

Quantitative and qualitative evaluation

Custom protocols and reports

Unlimited access across different devices

Windows

macOS

Absorbance 96

Specifications

Redefining Plate Readers

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

Measurement		
	Light source	4 x LEDs
	Detector	96 x Photodiodes
	Wavelength	405, 450, 492, 620 nm/405, 450, 540, 630 nm/492, 562, 605, 650 nm Other filter combinations in the range of 400–650 nm possible.
	Photometric range	0.0–4.0 OD
	Linearity	≤ 1.0 % from 0.0–2.0 OD ≤ 1.5 % from 2.0–3.0 OD
	Accuracy	≤ 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 % + 0.010 OD from 2.0–3.0 OD
	Resolution	0.001 OD
	Read time	Down to 5 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	0.9 kg
	Power	Through USB connection 5 V
	Power consumption	2.5 Watts

Software features		
	Operating system	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

Absorbance 96 – Made in Germany