



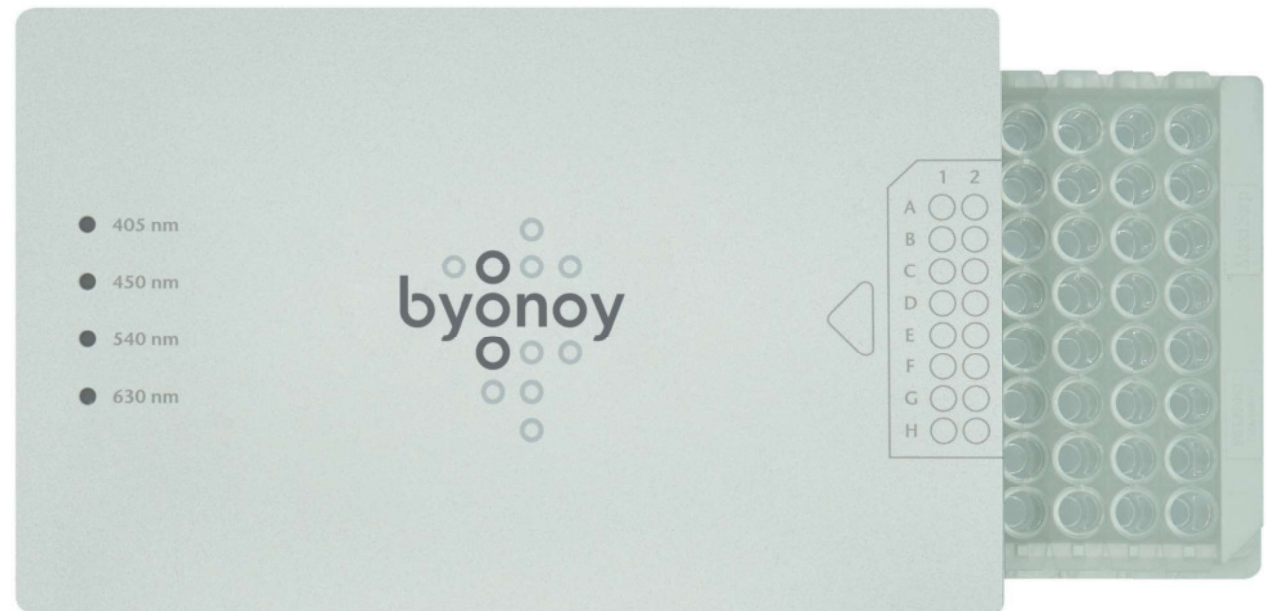
ABSORBANCE 96

HIGH QUALITY MICROPLATE
READER IN A NEW FORM FACTOR



ABSORBANCE 96

PURE PRECISION.



The Absorbance 96 is a microplate reader for assays in 96-well format with a unique design. The footprint is almost the same as the microplate, which makes it by far the most compact reader on the market. Despite its form, the Absorbance 96 delivers high precision and accuracy for quality results at an affordable price. Together with the Byonoy reader control software, the Absorbance 96 is ideal for a variety of applications, which extend from ELISA, protein and other endpoint assays to cell-based assays.

Main features

- Space-saving design
- Fast microplate reading speed
- Reliable measurement results
- Intuitive operation
- Maintenance-free
- Affordable price

Applications

The Absorbance 96 allows to read out of wide range of applications. The following examples are some of the most important applications for the Absorbance 96:

- ELISA
- Protein quantification assays
- Cell-based assays
- Endpoint and kinetic assays

ABSORBANCE 96

COMPACTNESS.

0,9 kg

With just 900 grams, the Absorbance 96 is by far the lightest reader on the market.



Our technological solution enables us to build the Absorbance 96 in a unique compactness, with a footprint of about one microplate. Our vision was to develop a reader that meets the needs of the user and gives him the advantages of complete flexibility. The Absorbance 96 fits into any lab and saves valuable bench space. It can be easily transported within the laboratory and also between different laboratories. This makes it the perfect analytic tool for those, who want to explore new possibilities.



The volume of the Absorbance 96 is approximately 10 times smaller than the smallest comparable reader on the market.



ABSORBANCE 96

USABILITY.



Our goal was to develop a reader, that simplifies the workflow in the laboratory. The unique open design in combination with the small size of the reader leads to a new user experience and an improved handling. Another distinctive feature of the Absorbance 96 is its clear design and reduced complexity.

To operate the reader, only the USB connection to the computer is needed. It assures not only the communication with the computer but also the power supply of the reader. Once the reader is connected via plug-and-play to the computer it is controlled intuitively with the complementary user software.

Main features

- Open design for quick plate loading
- Small reader size for improved handling
- Reduced complexity
- Plug-and-play
- Power supply via USB

ABSORBANCE 96

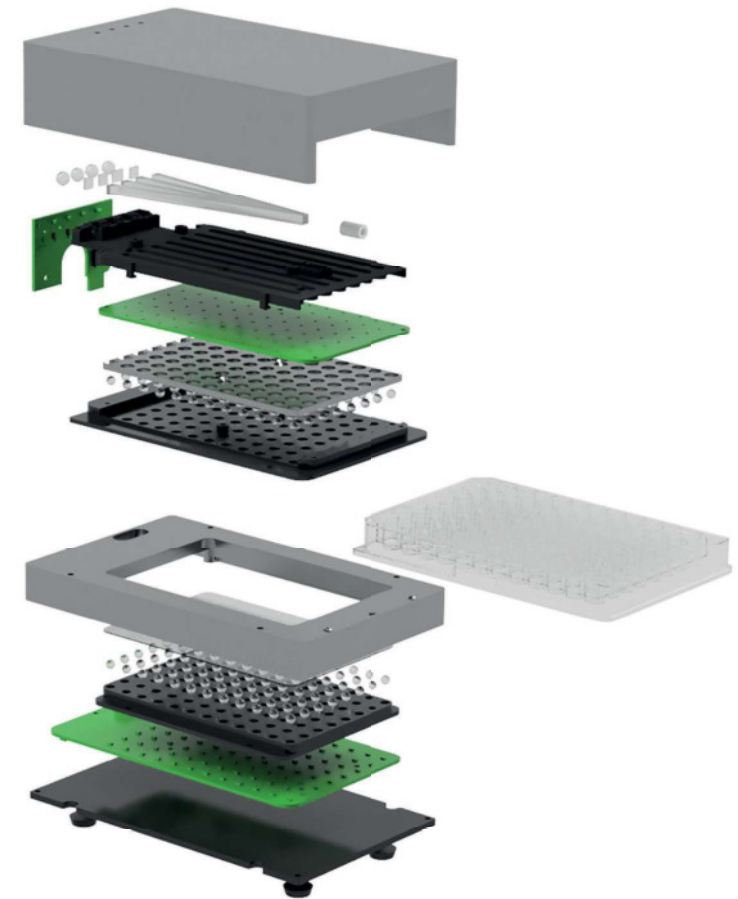
PERFORMANCE.

96 DETECTION UNITS

The Absorbance 96 is the first reader with 96 detection units on the market. Thanks to the innovative technological system without scanning mechanics, the Absorbance 96 enables fast photometric measurements and reliable, high quality results. The implemented LED-technology is free of maintenance requirements. With the four-channel LED-optic the read out of a variety of different assays is possible.

The system combines four measurement channels with long-life LEDs and comes with four standard filters in three different combinations:

405, 450, 492, 620 nm - ELISA assays like PNPP, ABTS, OPD, TMB
450, 562, 595, 650 nm - Protein assays like Bradford, BCA, Lowry
450, 492, 570, 620 nm - Cell-based assays like MTT, XTT, Cell Density



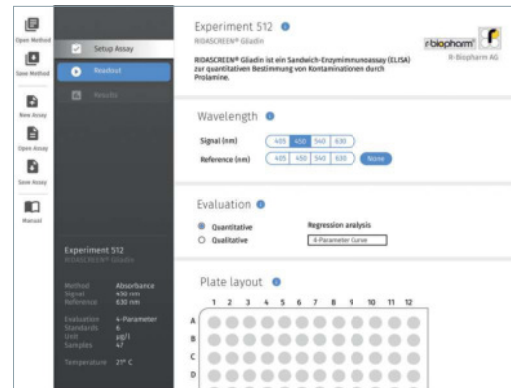
Highlights

- 96 detection units for fast reading
- Four-channel LED-optic
- No scanning mechanics
- Maintenance-free

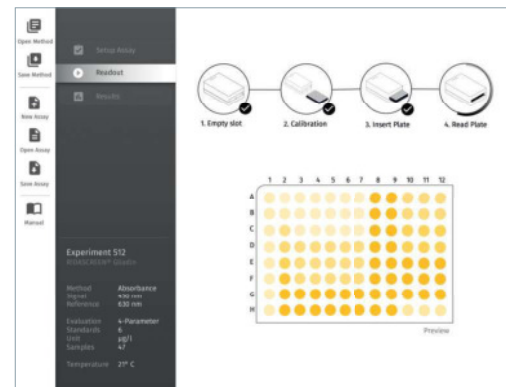
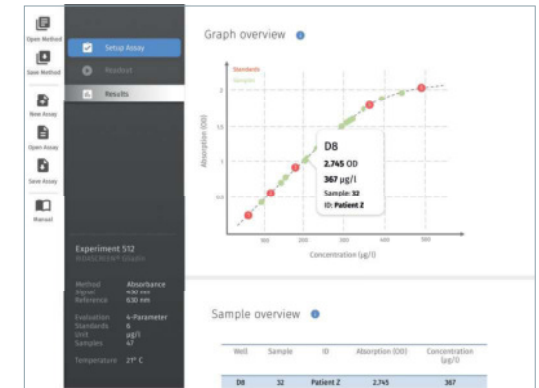
ABSORBANCE 96 SOFTWARE.



Step 1: Setup customized methods or use precustomized methods of the corresponding kit.



Step 3: Visualisation of the results as a graph, plate or tabular view.



Step 2: Guidance through the readout process.

ABSORBANCE 96

SPECIFICATIONS.

General	Detection method	Absorbance
	Detection mode	Endpoint, kinetic
	Microplate types	96-well microplates
	Software	Byonoy software for external computer control
Measurement	Light source	4 x LEDs
	Detector	96 x Photodiodes
	Wavelength selection	ELISA: 405, 450, 492, 620 nm
		Protein: 450, 562, 595, 650 nm
		Cell-based: 450, 492, 570, 620 nm
	Photometric range	0.0-3.5 OD
	Linearity	≤1.0% from 0.0-2.0 OD
		≤1.5% from 2.0-3.0 OD
	Accuracy	≤1.0% + 0.010 from 0.0-2.0 OD
		≤1.5% + 0.010 from 2.0-3.0 OD
	Reproducibility	≤0.5% + 0.005 from 0.0-2.0 OD
		≤1.0% + 0.010 from 2.0-3.0 OD
Physical Characteristics	Resolution	0.001 OD
	Read time	Down to 2 sec at single wavelength
	Data output	USB 2.0 interface with PC
	Dimensions	9,6 cm x 15,4 cm x 5,5 cm (W x L x H)
	Weight	0.9 kg
Regulatory	Power	Through USB connection 5V
	Power consumption	2.5 Watts

