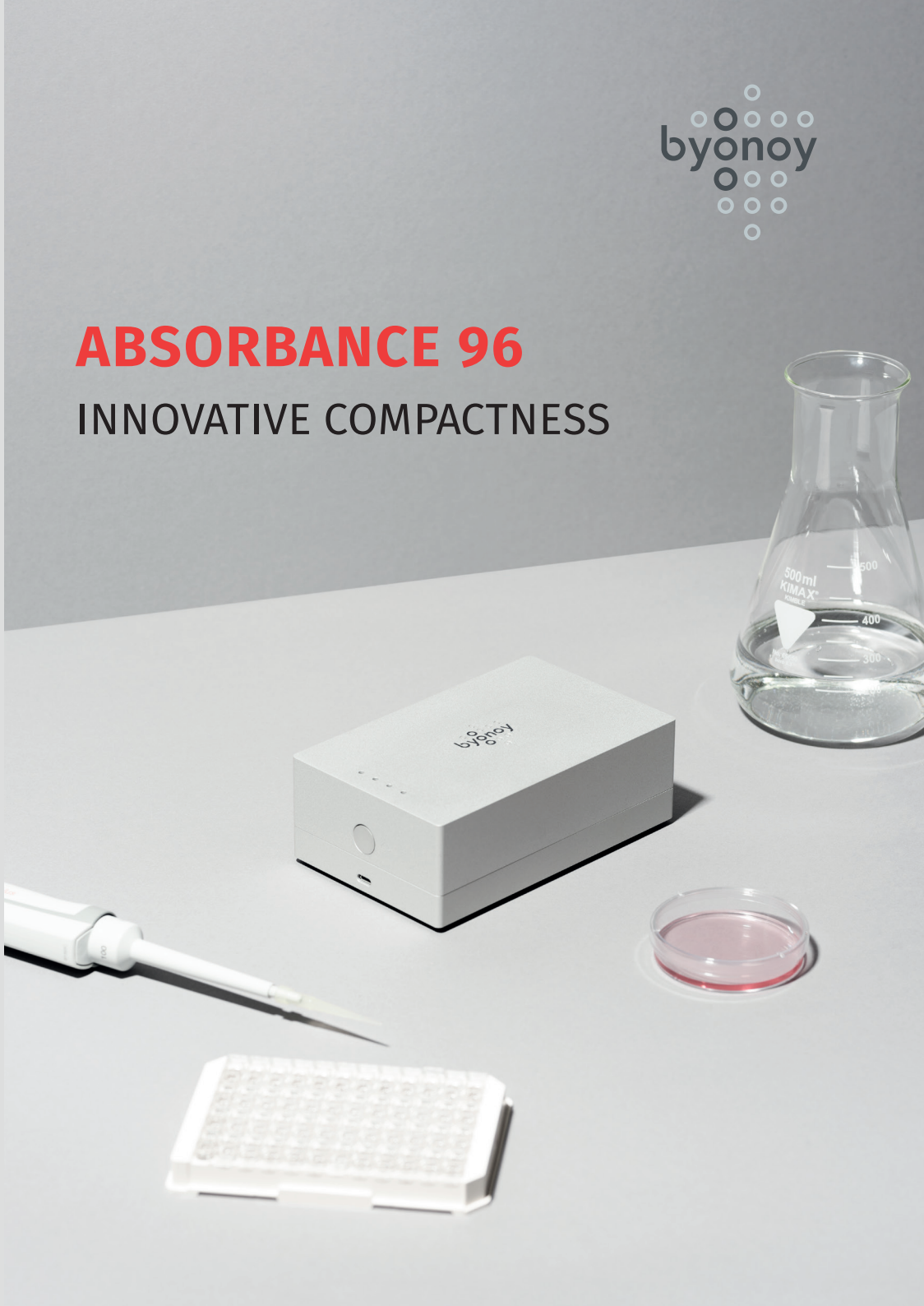
ABSORBANCE 96

INNOVATIVE COMPACTNESS



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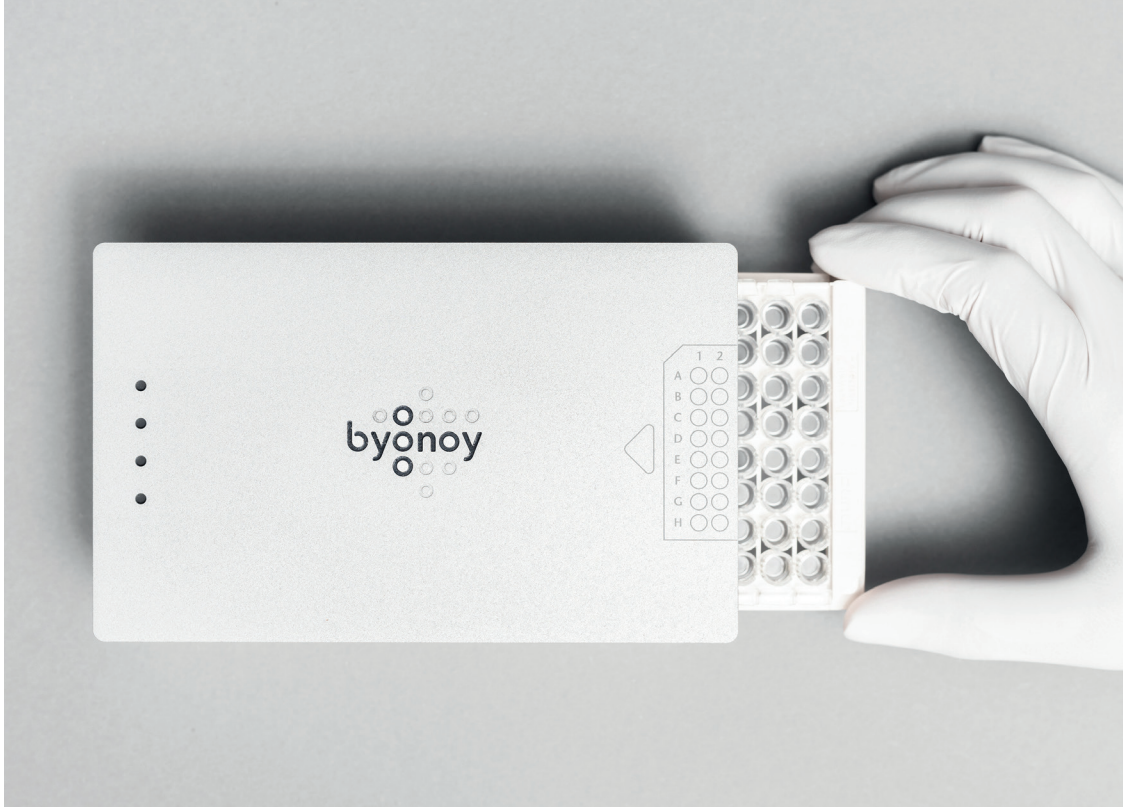
ABSORBANCE 96
AT A GLANCE.



0.9 kg

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

The Absorbance 96 is a uniquely designed microplate reader for assays in 96-well format. By far the most compact reader on the market, the footprint of the reader is almost as small as the plate itself. Despite its form, the Absorbance 96 delivers precise and accurate results at an affordable price. Together with the Byonoy proprietary software, the Absorbance 96 is ideal for a variety of applications, extending from ELISA to protein and cell-based assays.

Main features

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

Applications

The Absorbance 96 allows for a 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
USABILITY.

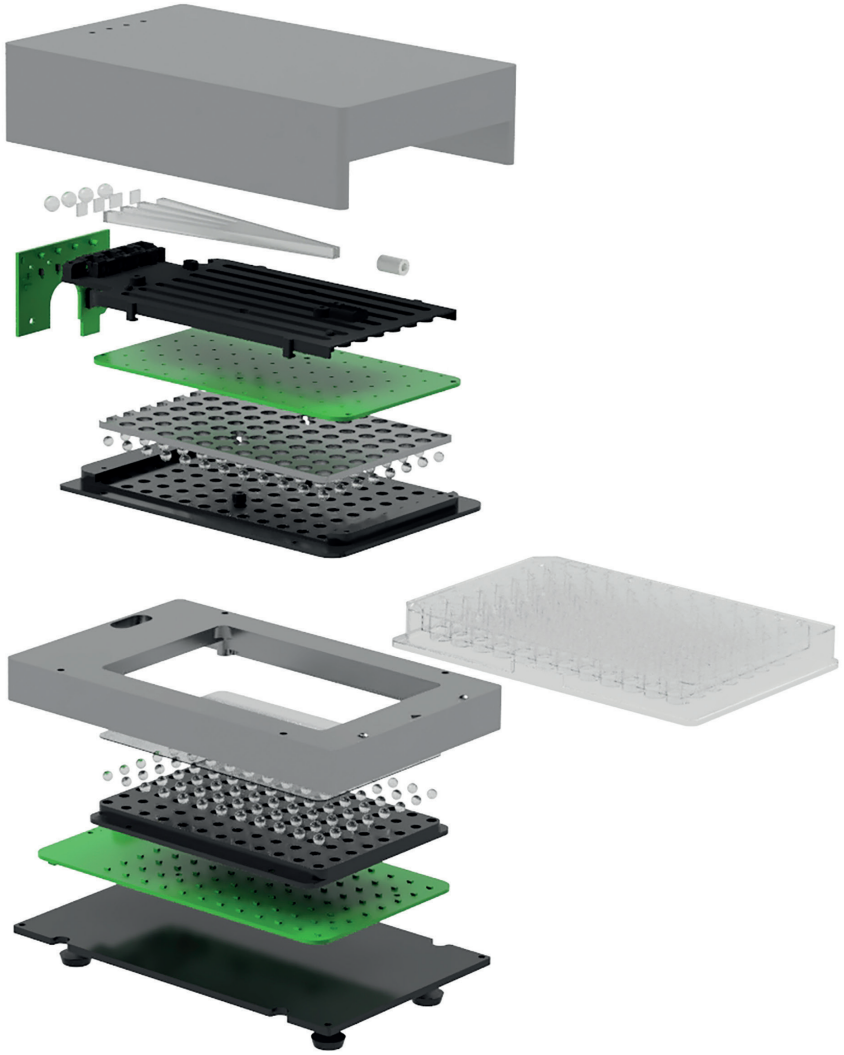
Our goal was to develop a reader that would simplify the workflow in the laboratory. This philosophy of intuitive operation was translated into the Absorbance 96. The unique open design, in combination with the small size of the reader, leads to an entirely new user experience. A simple USB connection provides both the power supply and access to Byonoy's user-control software, which itself functions via plug-and-play technology. Easily transported within – and between – different workspaces and laboratories, the Absorbance 96 fits into every lab, saving bench space and providing unprecedented flexibility.

Main features

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

ABSORBANCE 96
TECHNOLOGY.

96
DETECTION UNITS



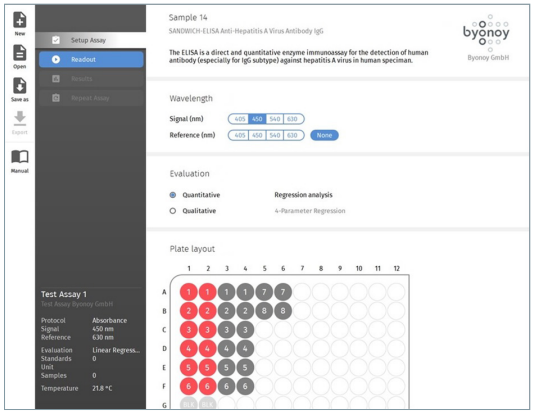
The Absorbance 96 is the first microplate reader on the market to contain 96 individual detection units. This means that all wells can be read simultaneously - in parallel - allowing for extremely fast photometric measurements. Without the need to scan across multiple wells, the Absorbance 96 has no moving parts. In combination with long-life LEDs, this solid-state design provides a maintenance-free user experience and ensures reliable, high quality results.

The four standard filters – 405, 450, 492, 620 nm – allow for a wide variety of ELISAs such as PNPP, ABTS, OPD and TMB. Other filter combinations for protein (Bradford or BCA), cell-based (MTT, XTT), or cell density assays can also be provided.

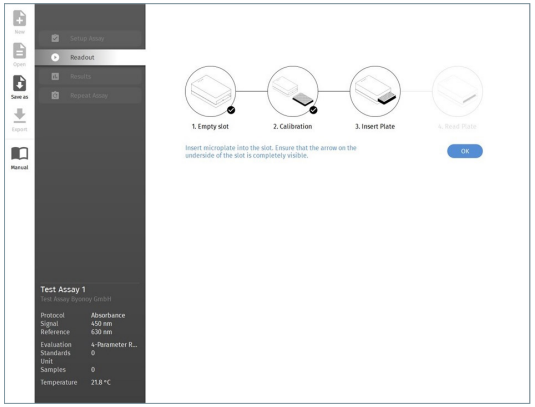
Highlights

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

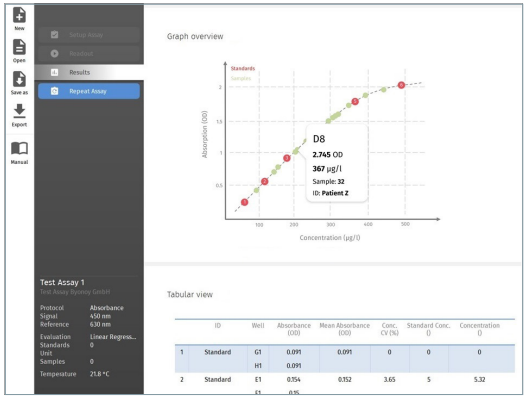
ABSORBANCE 96
SOFTWARE.



Step 1 Create custom protocols or load pre-set methods from a corresponding kit.



Step 2 Guidance through the readout process.



Step 3 Visualization of the results as a graph, or in plate/tabular view.

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	405, 450, 492, 620 nm (FWHM 10 nm) Other filter combinations for protein or cell-based assays on request.
	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 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
	Resolution	0.001 OD
	Read time	Down to 2 sec at single wavelength
	Data output	USB 2.0 interface with PC
Physical Characteristics	Dimensions	9.6 cm x 15.4 cm x 5.5 cm (W x L x H)
	Weight	0.9 kg
	Power	Through USB connection 5V
	Power consumption	2.5 Watts
Regulatory	CE marked, IVD coming 2019