

## Ao Microplate Reader Specifications



Plate Type	96-well Plates
Wavelength Range	340-750 nm
Filters	8 Position Filter Wheel includes 8 filters, 5 standard: 405, 450, 492, 595, and 630, and 3 selected from the filter catalogue.
Light Source	Quartz-halogen Lamp
Dynamic Range	0-4.000 Abs
Resolution	0.001 Abs
Linearity (@ 405 nm)	0-2.000 Abs $\leq \pm 1\%$ 2-4.000 Abs $\leq \pm 2\%$
Accuracy (@ 405 nm)	0.005 $\pm 1\%$ (0-3 Abs) 0.005 $\pm 2\%$ (3-4 Abs)
Precision (@ 405 nm)	CV $\leq 0.2\%$ (0-3 Abs) CV $\leq 1.0\%$ (3-4 Abs)
Read Modes	End Point, Dual Mode, Kinetic
Read Speed	<6s Single Mode, 12s Dual Mode
Shaker	Shaker speeds: slow, medium, fast
Data Output	3 USB Ports, Optional Printer
Dimensions (W x D x H)	440 x 295 x 225 mm
Weight	10 kg

## Ordering Information

Part Number	Name	Description
AC3000	Azure Ao Microplate Reader	This 96-well plate, absorbance microplate reader is a stand-alone system, wavelength range 340-750nm, including an 8 position filter wheel with 8 filters: 405, 450, 492, 595, and 630 standard, plus 3 from the filter catalogue, built-in shaker with speed selection, single and dual-read modes, and analysis software.

### Printer

Part Number	Description
AC3200	USB Thermal Printer
AC3201	USB Thermal Printer Paper, single roll

### Filter Catalogue

Part Number	Description
AC3100	Ao 340nm Filter
AC3101	Ao 380nm Filter
AC3103	Ao 415nm Filter
AC3106	Ao 540nm Filter
AC3107	Ao 570nm Filter
AC3108	Ao 578nm Filter
AC3109	Ao 590nm Filter
AC3112	Ao 650nm Filter
AC3113	Ao 690nm Filter

# Azure Ao Absorbance Microplate Reader

A rainbow of assays at your fingertips.



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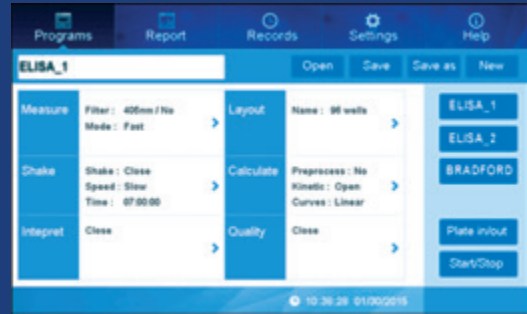
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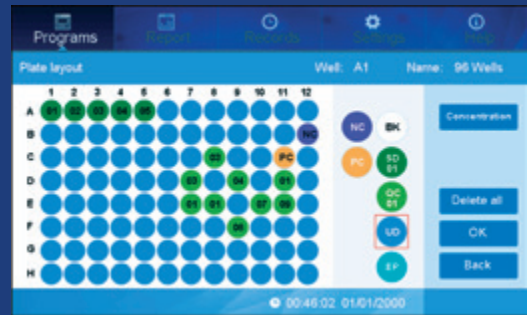
# Ao Absorbance Microplate Reader

## The Azure Ao interface allows you to:

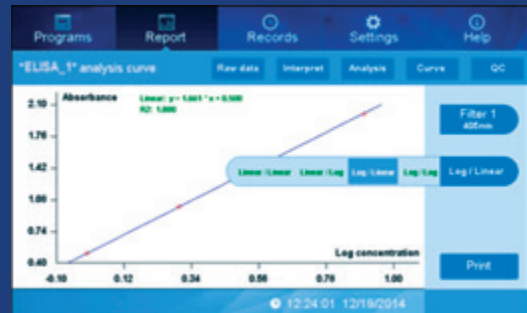
Quickly select from pre-set or custom protocols and analysis options



Easily set up your 96-well plate



View your raw data and analysis



And print or export your results in reports, or as raw data

Well	1	2	3	4	5	6	7	8	9	10	11	12
A	0.000	1.000	1.010	1.020	1.030	1.040	1.050	1.060	1.070	1.080	1.090	1.100
B	0.567	0.606	0.645	0.675	0.677	0.622	0.628	0.623	0.623	0.623	0.623	0.623
C	3.767	3.851	3.933	3.983	4.033	4.083	4.133	4.183	4.233	4.283	4.333	4.383
D	2.088	3.037	3.086	3.081	3.077	3.072	3.067	3.062	3.057	3.052	3.047	3.042
E	3.166	3.109	3.051	3.000	3.011	3.267	3.138	3.117	3.107	3.104	3.104	3.104
F	3.007	3.126	3.226	3.293	3.370	3.458	3.556	3.664	3.781	3.908	4.045	4.192
G	1.003	2.006	2.967	3.266	3.677	3.763	3.767	3.765	3.765	3.765	3.765	3.765
H	1.076	1.031	1.044	1.043	1.710	1.710	1.066	1.011	1.047	1.037	1.704	1.704

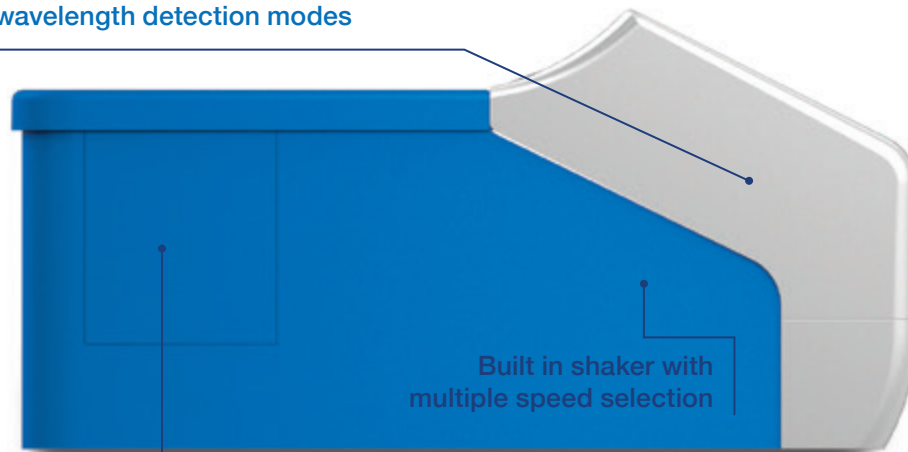
Intuitive, large format, touch screen interface to easily run your assay and view your analysis



Motorized door for easy access to your 96-well plates

Analyses include pre-processing for dual mode reads, +/- interpretation with controls, concentration determination, curve fits, and kinetic measurement analysis & curves

Single and dual wavelength detection modes



Built in shaker with multiple speed selection

8 position filter wheel, with 5 standard filters and 3 selectable filters from 340-750 nm

## A Filter for Every Assay

The Ao comes with 5 standard filters at 405, 450, 492, 595, and 630 nm. For most ELISA, Bradford, and Lowry assays. The 3 remaining filters are selected from our wide catalogue, ensuring you will have the filter solution for your assays.

## An Intuitive, Large Format, Touch Screen Interface

The Ao features a 7" intuitive touch interface. It allows you to quickly choose a pre-set protocol or set up your plate without a separate computer or laborious up/down arrow keypads. Tap and drag to define a region, rows, or single cells on your plate with ease. See your results and analysis right on the screen or export at a single touch for downstream analysis.

## Reliable Precision, Accuracy, and Linearity

Trust your data. With the Ao microplate reader you will not sacrifice speed for accuracy. With a read speed of <6 seconds, and an accuracy of <0.005 +/- 1% (0-3) OD you will quickly get your results and know that they are correct.

## A Snapshot of Possible Assays

Assay	Filter
NAD/NADP Conversion	340 nm
Alkaline Phosphatase (PNPP), $\beta$ -galactosidase, Horseradish Peroxidase (ABTS)	405 nm
Hydrogen Peroxide Concentration Assays	415 nm
Horseradish Peroxidase (TMB)	450 nm
Horseradish Peroxidase (OPD), DPD, XTT	492 nm
BCA	540 nm
MTT	570 nm
L-Ascorbate	578 nm
BCA	590 nm
Bradford, Lowry, Diphenylamine DNA (DISHE)	595 nm
Lowry	650 nm