

Azure Ao Absorbance Microplate Reader Specifications

Standard configuration: Includes stand-alone top-read absorbance microplate reader, wavelength range 340-750nm, dynamic range 0-4.000 Abs, motorized door, built-in 3 speed shaker, 7" LCD touch screen with plate setup and analysis software, 8 position filter wheel with 8 filters included, 5 standard: 405, 450, 492, 595, & 630, and 3 filters selected from the filter catalogue, 3 USB ports and option printer for data output, and 2 year warranty standard.

Applications:

- ELISA Assays
- Protein Analysis
- Enzyme Kinetics
- Cell Viability and Proliferation
- DNA and Total Protein Quantification
- Cell Density

Sample types:

- 96-well plates: Flat, U-bottom, Half-volume, and Easy Wash™

Compatible Assays:

The Azure Ao is an open platform. A partial list of compatible assays is below.

- ELISA: Alkaline Phosphatase (PNPP), B-Glactosidase, Horseradish Peroxidase (ABTS), TMB
- Cell Viability and Proliferation: NAD/NADP Conversion, MTT, MTS, XTT,
- DNA and Total Protein Quantification: BCA, Bradford, Lowry, Diphenylamine DNA (DISHE)
- L-Ascorbate

Powerful and Reliable Absorbance Reader

- Filter-based, top-read photometer for fast and accurate results
- Long lasting quartz-halogen lamp
- Dynamic Range: 0 – 4.000 Abs
- Resolution: 0.001 Abs
- Linearity (@ 405nm): 0-2.000Abs $\leq\pm1\%$; 2-4.000Abs $\leq\pm2\%$
- Accuracy (@ 405nm): 0.005 $\pm1\%$ (0-3Abs); 0.005 $\pm2\%$ (3-4Abs)
- Precision(@ 405nm): CV $\leq0.2\%$ (0-3Abs); CV $\leq1.0\%$ (3-4 Abs)

Compact and Versatile Unit

- 8 position filter wheel with 8 filters included
- 5 standard filters: 405, 450, 492, 595, and 630
- 3 filters selected from our filter catalogue
- Filters can be exchange in the field
- Motorized door to quickly and easily load/access the plate
- Built in shaker with 3 speed selection: slow, medium, and fast

- Data output ports: 3 USB, optional USB printer
- Data output format: Excel

Touch Screen Interface with Intuitive Plate Setup and Analysis Software

- 7" LCD touch screen interface
- Three read modes: End Point, Dual Mode, and Kinetic
- Fast sample processing (<6s single read, 12s double read)
- Analyses include pre-processing for dual mode reads
- Pre-programmed protocols for ELISA and Bradford assays
- Create and save customer protocols
- Interpret +/- samples with controls
- Concentration determination from standards
- Quality control interpretation for QC controls
- Selectable curve fits for analysis
- Kinetic measurement analysis & curves

Dimensions

- 440 x 295 x 225 mm
- Weight 10 kg (22 lbs.)

Electrical

- Working environment ambient temperature/humidity: 0 –30°C / 85%
- Power requirement 100-240 VAC, 2A, 50/60 Hz
- CE

Warranty

- Standard 2 year warranty