



IMMUNOASSAY / MICROPLATE ANALYSIS

ELISA MICROPLATE READER

Fast, reliable absorbance measurement for 96-well ELISA workflows.

A proposed ALC-Scientific microplate reader configuration based on the EMR4 reference platform for quantitative absorbance measurements in ELISA and related microplate assays.



WAVELENGTH 340-750 nm

PLATE FORMAT 96-well

DISPLAY 7 in touchscreen

Proposed Model
ALC-EMR4

Reference
EMR4 reference

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet and ALC model mapping.



OVERVIEW & FEATURES

PRODUCT OVERVIEW

Reliable absorbance measurement for 96-well ELISA workflows.

Filter-based microplate photometry with rapid full-plate reading, automatic calibration, built-in analysis software and USB connectivity. Final ALC specification remains subject to approved OEM model mapping.

**WAVELENGTH**

340-750 nm

PLATE FORMAT

96-well

DISPLAY

7 in touchscreen

Key Features

- 7-inch colour touchscreen interface
- Halogen light source with filter-based optics
- 8-position filter wheel; 4 standard filters
- Reading range 0.000-4.000 Abs
- Fast full-plate measurement
- Automatic calibration and self-diagnostics
- Built-in software for assay data analysis
- USB data transfer

Working Principle

Light at a selected wavelength passes through each microplate well. The detector measures transmitted light and calculates absorbance, allowing colour intensity in ELISA reactions to be quantified across the plate.

TYPICAL APPLICATIONS

ELISA and immunoassay testing / Clinical and research laboratories / Biotechnology and life-science research / Food and veterinary testing / Pharmaceutical quality control



REFERENCE TECHNICAL DATA

Model-specific values require approved OEM confirmation.

PARAMETER	REFERENCE SPECIFICATION
Reference platform	EMR4
Filter wheel	8 positions
Standard filters	405, 450, 492, 630 nm
Filter bandwidth	8-10 nm
Reading range	0.000-4.000 Abs
Wavelength range	340-750 nm
Resolution	0.001 Abs
Full 96-well reading	< 6 s, reference value
Light source	Halogen lamp
Display	7 in colour touchscreen
Interface	USB
Power	60 W
Power supply	AC 220 V / 50 Hz

STANDARD SUPPLY

- Main instrument
- Power cord
- Instruction manual
- Test certificate

OPTIONAL /
MODEL-DEPENDENT

- Additional wavelength filters
- Printer / data export accessories
- Validated assay methods / software options
- IQ/OQ/PQ documentation as quoted

TO BE CONFIRMED

- Final ALC model code
- Exact memory / software revision
- Filter set supplied
- Warranty and validation scope
- Accessories and compliance documents



APPLICATIONS & ENQUIRY

LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- ELISA and immunoassay testing
- Clinical and research laboratories
- Biotechnology and life-science research
- Food and veterinary testing
- Pharmaceutical quality control
- Academic teaching laboratories

Product Advantages

- Rapid 96-well reading
- Broad 340-750 nm wavelength coverage
- Touchscreen operation
- Automatic calibration support
- USB data handling
- Compact benchtop format

INDUSTRIES SERVED

Clinical diagnostics / Biotechnology / Pharmaceutical QC / Academic research / Food and veterinary laboratories



SCAN FOR PRODUCT PAGE

Request a model-specific quotation.

Share your application, required range or capacity, preferred configuration, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved technical datasheet and commercial quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE

Product images are for reference and may vary according to the selected configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those stated in the approved technical datasheet and commercial quotation.