

ELx808™ Absorbance Microplate Reader

Excellent optical performance and superior incubation are among the top features of this multi-channel reader. The ELx808™ is suitable for a wide array of applications, from endpoint ELISAs to kinetic cell growth studies.

4-Zone™ Temperature Control

For temperature sensitive assays, there is no better incubation system in this microplate reader class than the ELx808. The natural convection heating is software controlled for consistency and performance over time.

Fast Measurement

The ELx808 can collect kinetic data in intervals as short as 6 seconds, for the most demanding assays. Gen5™ Data Analysis Software provides multiple kinetic and end point data analysis options for a variety of applications.

Superior Optical Performance

The ELx808 can accommodate up to six absorbance filters, and its optical channels are staggered to prevent crosstalk between wells. The reference channel eliminates channel-to-channel variation. This unique design gives the ELx808 its proven optical performance.

Typical Applications:

- ▶ ELISA
- ▶ Enzyme kinetics
- ▶ Endotoxin assays
- ▶ Cell growth studies
- ▶ Cytotoxicity
- ▶ Protein assays



Specifications

<u>General</u>	
Detection method	Absorbance
Read method	End point, kinetic, linear scanning
Microplate types	96-wells
Temperature control	4-Zone temperature control to 50°C (ELx808IU)
Shaking	Yes
Software	Gen5 Data Analysis Software
Onboard software	55 user-programmable protocols
<u>Absorbance</u>	
Light source	Tungsten halogen
Wavelength selection	Filters
Wavelength range	380 - 900 nm 340 - 900 nm (ELx808IU)
Bandpass	10 nm typical
Dynamic range	0 - 4.0 OD
Resolution	0.001 OD
Filter wheel capacity	6 positions
Filters supplied	4 filters (5 with UV option)
OD accuracy	<1% at 2.5 OD typical <2% at 3.5 OD typical
OD linearity	<1% at 2.5 OD typical
OD repeatability	<0.5% at 2.5 OD typical <1.5% at 3.5 OD typical
Reading speed	96 wells: 8 seconds
<u>Physical Characteristics</u>	
Power	100 - 240 Volts AC 50/60 Hz
Dimensions	16"D x 15.5"W x 8.75"H (40.6 x 39.4 x 22.2 cm)
Weight	30 lbs (13.6 kg)
<u>Regulatory</u>	For In Vitro Diagnostic use. All BioTek microplate instrumentation is CE and TUV marked.

Specifications are subject to change.

ELx800™ Absorbance Microplate Reader

The ELx800™ is a compact, robust microplate reader ideally suited for applications within the clinical and life science research laboratories.

Reliable And Robust Design

These characteristics are the reason there have been more than 10,000 ELx800s placed in laboratories around the globe. There simply isn't a more reliable reader with proven performance than the ELx800.

Gen5™ Software Expands Versatility

Under computer control by Gen5 Data Analysis Software, ELx800 applications are expanded to include kinetic and well area scanning measurements. Data analysis and reporting/exporting features in Gen5 are completely customizable to suit your laboratory's requirements.

High Performance, High Value

The ELx800 comes with four filters (user-selectable wavelengths), with a five filter capacity. In addition to standard 96-well microplate reading, the ELx800 offers 6-, 12-, 24-, 48- and optional 384-well microplate reading, to fit a variety of assay needs.

Typical Applications:

- ▶ ELISA
- ▶ Protein assays
- ▶ Cytotoxicity



Specifications

<u>General</u>	
Detection method	Absorbance
Read method	End point, kinetic and area scanning under computer control
Microplate types	6- to 384-wells 60/72/96-well Terasaki plates (NB option)
Software	Gen5 Data Analysis Software
Onboard software	55 user-programmable protocols
<u>Absorbance</u>	
Light source	Tungsten halogen
Wavelength selection	Filters
Wavelength range	400 - 750 nm 340 - 750 nm (UV option)
Bandpass	10 nm
Dynamic range	0 - 3.0 OD
Resolution	0.001 OD
Filter wheel capacity	5 positions
Filters supplied	4 filters (5 with UV option)
OD accuracy	<1% at 2.0 OD typical
OD linearity	<1% at 2.0 OD typical <3% at 3.0 OD typical
OD repeatability	<0.5% at 2.0 OD typical
Reading speed	96 wells: 30 seconds
<u>Physical Characteristics</u>	
Power	100 - 240 Volts AC 50/60 Hz
Dimensions	16.5"D x 15"W x 7"H (41.9 x 38.1 x 17.8 cm)
Weight	18.5 lbs (8 kg)
<u>Regulatory</u>	For In Vitro Diagnostic use. All BioTek microplate instrumentation is CE and TUV marked.

Specifications are subject to change.

Absorbance Reader Comparison Chart

Which Absorbance Reader is right for you?

	Monochromator-Based		
	<i>PowerWave™ HT</i>	<i>Eon™</i>	<i>Epoch™</i>
Key Features			
Wavelength range (nm)	200 - 999	200 - 999	200 - 999
Microplate types	96 and 384	6 to 384	6 to 384
Absorbance range (Abs)	0 - 4.0	0 - 4.0	0 - 4.0
Temperature control	to 50°C	to 65°C	
Shaking	Linear	Orbital and Linear	
Cuvette measurement	Cuvette adapter	Cuvette port ("C" model)	Take3 or cuvette adapter
Filter capacity	n/a	n/a	n/a
Automation ready/BioStack™ compatible	•	•	("R" model)
Gen5™ Software included	•	•	•
Take3™ Micro-Volume Plate compatible		•	•
Fastest read speed: 96 wells (seconds)	5	8	15
Typical Performance			
OD accuracy	1% +0.01 OD	0 to 2 OD: ±1% ±0.010 OD 2 to 3 OD: ±3% ±0.010 OD	0 to 2 OD: +1% +0.010 OD 2 to 2.5 OD: +3% +0.010 OD
OD linearity	±1% typical	0 to 2 OD: ±1% ±0.010 OD 2 to 3 OD: ±3% ±0.010 OD	0 to 2 OD: +1% +0.010 OD 2 to 2.5 OD: +3% +0.010 OD
OD repeatability	0.5% ±0.005 OD	0 to 2 OD: ±1% ±0.005 OD 2 to 3 OD: ±3% ±0.005 OD	0 to 2 OD: +1% +0.005 OD 2 to 2.5 OD: +3% +0.005 OD
Resolution	0.001 OD	0.0001 OD	0.0001 OD



Filter-Based				
<i>ELx808™ IU</i>	<i>ELx808</i>	<i>ELx800™</i>	<i>ELx800 UV</i>	<i>ELx800NB</i>
340 - 900	380 - 900	400 - 750	340 - 750	400 - 750
96	96	6 to 96	6 to 96	6 to 384
0 - 4.0	0 - 4.0	0 - 3.0	0 - 3.0	0 - 3.0
to 50°C				
Linear	Linear			
6	6	5	5	5
8	8	30	30	30
<1% at 2.5 OD <2% at 3.5 OD	<1% at 2.5 OD <2% at 3.5 OD	<1% at 2.0 OD	<1% at 2.0 OD	<1% at 2.0 OD
<1% at 2.5 OD	<1% at 2.5 OD	<1% at 2.0 OD <3% at 3.0 OD	<1% at 2.0 OD <3% at 3.0 OD	<1% at 2.0 OD <3% at 3.0 OD
<0.5% at 2.5 OD <1.5% at 3.5 OD	<0.5% at 2.5 OD <1.5% at 3.5 OD	<0.5% at 2.0 OD	<0.5% at 2.0 OD	<0.5% at 2.0 OD
0.001 OD	0.001 OD	0.001 OD	0.001 OD	0.001 OD



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