

# ELx808™ Absorbance Microplate Reader

High quality optics and rugged design are the hallmarks of the ELx808™ Absorbance Microplate Reader. The 340 nm – 900 nm wavelength range encompasses a wide range of potential applications for this multichannel reader. The ELx808 offers unsurpassed superior 4-Zone Temperature Control, providing excellent stability for temperature sensitive assays like endotoxin analysis and long-term bacteria and yeast growth studies. Through the optional control of Gen5™ Data Analysis software, the ELx808 becomes an efficient, easy to use and powerful system for a variety of microplate based applications. Endpoint, kinetic and linear well scanning measurements are easily defined and analyzed through

Gen5, but when bench space is a premium or a computer interface isn't available, the ELx808 offers extensive user-programmable software with curve-fitting, data transformation and other analysis options.



## Features:

- 4-Zone Temperature Control option provides improved reproducibility for temperature-sensitive assays
- Fast kinetic measurements in intervals as short as 6 seconds with multiple kinetic analysis options
  - Superior optical design incorporates staggered optics to eliminate channel-to-channel cross-talk
  - Endpoint, kinetic and linear well scanning read modes
  - Extensive onboard programming and data analysis



### Applications:

- ELISAs / EIAs
- Endotoxin Testing
- Enzymatic Activity
- Bacterial growth studies
- Fast Kinetic assays

### Models:

ELx808: For 96-well plates, 380-900 nm wavelength range and shaking

ELx808IU: For 96-well plates, 340-900 nm wavelength range, incubation to 50°C and shaking

See Web site or price list for complete model listings and descriptions.

### Optional Accessories:

- Gen5™ Data Analysis Software
- Gen5™ Secure (for 21 CFR Part 11 Compliance)
- Patented Bio-Cell™ 1 cm Quartz Vessel
- Bio-Cell™ Adapter
- Absorbance Test Plate
- Deskjet or Inkjet Printer
- Lamp for ELx808 (all models)
- Product Qualification Package

### Specifications:

#### Microplate Type

96-well: •  
Bio-Cell™ Compatible: •

#### System Features

Reading Modes: •  
Endpoint, kinetic, linear scan •  
Temperature Control to 50°C: •  
Temperature Uniformity: •  
± 0.5°C at 37°C •

Shaking: •  
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) •  
Onboard Software: 55 user-definable programs: •  
Gen5™ Compatible: •

#### Filter Wavelength Selection:

Wavelength Range: •  
380-900nm •  
340-900 nm •  
Filter wheel capacity / included: 6/4 6/5  
Dynamic Range: •  
0 to 4.0 OD •  
Bandpass: 10 nm: •

#### Read Channels/Reference:

Reading Speeds (secs):  
Normal Mode: 96 wells: 12 / 20 12 / 20  
single/dual wavelength  
Rapid Mode: 96 wells: 8 / 13 8 / 13  
single/dual wavelength  
Kinetic Interval Rapid Mode:  
single wavelength 6 6

#### Optical Performance (typical)

Tungsten Halogen Lamp: •  
OD Accuracy: •  
< 1 % at 2.5 OD •  
< 2 % at 3.5 OD •  
OD Linearity: •  
< 1 % at 2.5 OD •  
OD Repeatability: •  
< 0.5 % at 2.5 OD •  
< 1.5 % at 3.5 OD •  
Resolution 0.001 OD: •

\*Specifications subject to change



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