

ELx808™ Absorbance Microplate Reader



High quality optical components and rugged design provide results you can rely on. The ELx808 can be used for any colorimetric assay in the 340 - 900 nm range. The instrument's superior 4-Zone™ Temperature Control is the best on the market, providing excellent stability for temperature-sensitive assays such as endotoxin analysis and long-term bacterial growth studies. Plus, onboard software provides extensive data reduction capability for both endpoint and kinetic reactions. For those who prefer the convenience of a PC interface, the ELx808 can be controlled through BioTek's KC4™ or KCjunior™ Data Analysis Software.

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
- Extensive onboard programming and data analysis
- Superior optical design incorporates staggered optics to eliminate channel-to-channel cross-talk
- Endpoint, kinetic and linear well scanning read modes

Applications

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

Optional Accessories

KC4 Data Analysis Software
KCjunior Data Analysis Software
Patented Bio-Cell™ 1 cm Quartz Vessel
Bio-Cell™ Adapter
Absorbance Test Plate
Deskjet or Inkjet Printer
Lamp for ELx808 (all models)
DeltaSoft™ Macintosh® Software
Product Qualification Package

Models

ELx808: Available for 96-well plates, with varying wavelength ranges and incubation and shaking

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

Detection



| Specifications* | ELx808 | ELx808IU |
|--|------------------|------------------|
| Microplate Type | | |
| 96-well | • | • |
| Bio-Cell™ | • | • |
| Reading Modes | | |
| Endpoint, kinetic, linear scan | • | • |
| Filter Wavelength Selection | | |
| Wavelength Range: | • | • |
| 380 - 900 nm | • | |
| 340 - 900 nm | | • |
| Filter wheel capacity / included | 6 / 4 | 6 / 5 |
| Dynamic Range: | | |
| 0 to 4.0 OD | • | • |
| Bandpass: 10 nm | • | • |
| Reading Channels + reference | | |
| | 8/1 | 8/1 |
| Reading Speeds (seconds): | | |
| Normal Mode: 96 wells | | |
| single/dual wavelength | 12 / 20 | 12 / 20 |
| Rapid Mode: 96 wells | | |
| single/dual wavelength | 8 / 13 | 8 / 13 |
| 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 | • | • |
| System Features | | |
| Temperature Control to 50°C | | • |
| Temperature Uniformity: | | |
| ± 0.5°C at 37°C | | • |
| Shaking | • | • |
| Software Features | | |
| Onboard Software: 55 user-definable programs | • | • |
| KC4™, KCJunior™, DeltaSoft™ Compatible | • | • |
| Hardware Features | | |
| 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) | 30 lbs (13.6 kg) |

* Specifications subject to change