

The Expert Plus is a fast stand-alone, filter-based, multi-channel absorbance reader with onboard measurement and analysis software ideal for labs requiring simple, rapid readings of microplates

Biochrom[®] Asys Expert Plus

Microplate Reader



Key Features

- Standalone instrument with onboard software, instrument control and data analysis
- Fast plate reading of 5 seconds per plate - suited for high-throughput applications
- Four wavelength filters supplied as standard - suitable for the most common assays. Additional filters from 400 up to 800nm available
- Single or dual wavelength measurements
- Kinetics features with integrated data reduction
- Calibration prior to each reading - ensures accurate reading data
- QC plate and QC software available for instrument validation
- Reads flat, round and v-bottomed 96-well plates enabling flexibility in plate applications
- Four shaking modes - complete mixing of solutions
- Results can be printed using an external printer
- Connects to a PC for data storage or further analysis

“UV” OPTION

Expert Plus UV is also available enabling readings at 340 nm for applications including measuring the changes in the absorbance of NADH

Onboard Software

- Qualitative, quantitative and kinetics, a range of curve-fit methods including linear, parabolic, cubic, point to point, spline and 4 parameter
- Assay formulas including validation outliers, elimination, transformation factors and floating cut-off
- Stores up to 120 methods and the results of up to 100 plates

PC SOFTWARE SUPPLIED

- **Control Plus**
Simulates onboard software and allows both methods and measured plates to be uploaded and downloaded to and from a PC
- **DigiRead**
Controls the plate reader and collects the data to the Windows clipboard for transfer to a spreadsheet

OPTIONAL SOFTWARE PACKAGES INCLUDE:

- **KIM**
Easy to learn yet powerful data reduction package covering all end-point assay requirements for 96 well plates.
Complete flexibility for advanced users
Report generator gives complete freedom to design customized reports
- **MikroWin™ 2000**
Advanced modular software for analysis of quantitative, qualitative and kinetic assays.
Up to 12 different tests (or standard curves) may be defined on one microplate. Test controls or (standards and concentrations) may be assigned in any position, each individual control / standard is color coded to aid the user.

Applications

- Absorbance measurements: ELISA's, protein quantitation, cell proliferation and cell survival assays
- Enzyme kinetic measurements requiring automatic readings at timed intervals

TECHNICAL DETAILS

Biochrom Asys Expert Plus Microplate Reader	
Speed	5 seconds for a 96 well plate for a single wavelength
Microplate format	Flat, round and V-bottom 96-well plates
Light source	50W Tungsten halogen lamp
Detection system	8 silicon diodes for measurement
Measurement system	8 channel optical system with automatic calibration and digital light control
Measurement range	0.000 OD. to 4.000 OD
Accuracy	+/- 1% up to 2.5OD
Reproducibility and precision	+/- 0.5% up to 2.5OD
Filters	405, 450, 492, 620nm (and 340nm for UV version)
Display	Graphical LCD, backlit 240 x 128 pixels
Shaking	4 modes
Software	DigiRead and Connect Plus supplied as standard
Languages	English, French, German, Portuguese
Data output	RS232C bidirectional
Power	90-250V 50.60Hz, 80VA
Dimensions (wxhxd)	27 x 43 x 24 cm (10.6"x 16.9"x 9.4")
Weight	12Kg (22lbs)

ORDERING INFORMATION

	Biochrom Asys Expert Plus	Biochrom Asys Expert Plus UV
Instrument only	G020150090	G020151090
With KIM Software	G020150010	G020151010
With MikroWin 2000 Software (screening and curve fit modules)	G020150060	G020151060
With MikroWin 2000 Software (screening, curve fit, and kinetics modules)	G020150070	G020151070
QC check plate	SG010160	

MikroWin is a trademark of Mikrotek Laborsysteme GmbH

Distributors Worldwide



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