

The Expert 96 is a fast, filter-based, multi-channel absorbance reader ideal for labs requiring simple, rapid readings of microplates

# Biochrom<sup>®</sup> Asys Expert 96

## Microplate Reader



## Key Features

- Four wavelength filters supplied as standard – suitable for the most common assays
- Additional filters from 400 up to 750nm can be purchased for more specialized assays
- Fast plate reading of 5 seconds per plate – suited for high-throughput applications
- Single or dual wavelengths measurements
- Timed interval readings – ideal for kinetic assays
- Lamp calibration performed prior to each reading – ensures accurate reading data
- QC plate and QC software available for instrument validation
- Four shaking modes - complete mixing of solutions,
- Results can be printed using an external printer
- Data can be exported as a matrix into analysis software packages
- Expert Plus UV is also available enabling readings at 340 nm for applications including measuring the changes in the absorbance of NADH

## Software

The Expert 96 is supplied with:

- **DigiRead**  
Controls the plate reader and collects the data to the Windows<sup>®</sup> clipboard for transfer to a spreadsheet

### OPTIONAL SOFTWARE PACKAGES

- **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<sup>™</sup> 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 measurement: ELISA, Enzyme immunoassay, protein quantitation, cell proliferation and cell survival assays
- Cell-based assays requiring shaking where cells need to stay in suspension
- Assays requiring readings at timed intervals
- High-throughput studies requiring fast plate reading

## TECHNICAL DETAILS

### Biochrom Asys Expert 96 Microplate Reader

<b>Speed</b>	5 seconds for a 96 well plate
<b>Microplate format</b>	Flat, round and V-bottom 96-well plates
<b>Light source</b>	50W Tungsten halogen lamp
<b>Detection system</b>	8 silicon diodes for measurement
<b>Measurement system</b>	8 channel optical system with automatic calibration and digital light control
<b>Measurement range</b>	0.000 OD to 4.000 OD
<b>Accuracy</b>	+/- 1% up to 2.5 OD
<b>Reproducibility and precision</b>	+/- 0.5% up to 2.5 OD
<b>Shaking</b>	4 modes selected by user
<b>Data output</b>	RS232C bidirectional
<b>Power</b>	90-250V 50.60Hz, 80VA
<b>Dimensions (wx dxh)</b>	27 x 43 x 24cm (10.6"x 16.9"x 9.4")
<b>Weight</b>	12Kg (22lbs)

## ORDERING INFORMATION

	<b>Biochrom Asys Expert 96 Microplate Reader</b>	<b>Biochrom Asys Expert 96 UV Microplate Reader</b>
<b>Instrument only</b>	G018065090	G018066090
<b>With KIM Software</b>	G180685010	G018066010
<b>With MikroWin Software (screening and curve fit modules)</b>	G018065060	G018066060
<b>With MikroWin Software (screening, curve fit and kinetics modules)</b>	G018065070	G018066070

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