

PC-controlled, monochromator-based absorbance reader ideal for multi-user labs running a variety of assays including those that require spectral and linear scanning

Biochrom Asys UVM 340

Microplate Reader



Key Features

- Single or dual wavelength measurements plus kinetic measurements
- No need for filters! Monochromator-based system, allowing all wavelengths to be selected, enabling flexibility for future applications.
- Wavelength range from 340 nm to 800 nm enables a wide range of assays to be performed
- Shaking, ensures complete mixing of solutions, cells to stay in suspension and coloured solutions to be homogenized
- Linear scanning, to verify agglutination and coagulation studies
- Spectral scanning for contamination detection, peak absorbance detection and product formation studies
- Automatic performance verification ensures accuracy of data
- Single channel system avoids restrictions imposed by multi-channel systems. Plate formats from 12-96 well can be used for flexible applications
- Low profile, self-centring plate carrier with front loading allows easy integration into automated systems

Optional Accessories

QC Plate - checks the mechanical alignment of both the plate transport and the optical path and tests reader accuracy and precision.



Software

The UVM 340 is supplied (free of charge) with:

- **DigiRead:**
Controls the plate reader and collects the data to the Windows® clipboard for transfer to a spreadsheet.
- **ScanPlus**
Scanning software for spectral scans of single wells

Optional additional 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 colour coded to aid the user.
16 different control types are at the disposal of the user.

Applications

- Standard absorbance assays including: endpoint and total protein assays (BCA, Lowry, Bradford)
- ELISA assays
- Cell-based assays requiring shaking where cells need to stay in solution
- Assays measuring the changes of absorbance of NADH at 340nm
- Contamination detection, peak absorbance detection and product formation using spectral scanning
- Verification of agglutination and coagulation studies where readings are required across the well using linear scanning
- Multi-user labs where users are performing different assay types requiring the instrument to be able to run at many different wavelengths

TECHNICAL DETAILS

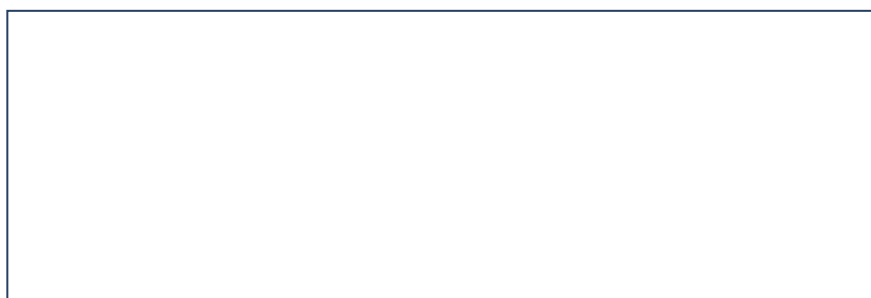
Biochrom Asys UVM340 Microplate Reader

Measurement range	0.000 to 3.600 OD
Wavelength range	340 to 800 nm
Wavelength selection	Monochromator; all wavelength selectable in 1 nm intervals
Bandwidth	< 3 nm
Accuracy	± 1% and ± 0.005 OD up to 2.0 OD
Reproducibility	± 0.5% and ± 0.005 OD up to 2.0 OD
Plate formats	12, 24, 48 and 96 well plate
Reading speed	35 seconds for a 96 well plate
Light source	30 watt Tungsten halogen lamp
Detection system	2 silicon diodes, one for measurement and one for reference
Measurement system	Single channel optical system with self-check and automatic calibration
Computer interface	RS-232C bidirectional and USB
Software	DigiRead, ScanPlus, KIM (optional), MikroWin 2000 (optional)
Validation	QC plate for checking alignment, absorbance accuracy, precision (Optional)
Dimensions (WxDxH),	27 x 43 x 24 cm, 10.6" x 16.9" x 9.4"
Weight	10 kg (22 lbs)
Power requirements	90 to 250V, 50/60 Hz, 65 VA

ORDERING INFORMATION:

G019065090	Biochrom Asys UVM340 Microplate Reader
G019065010	Biochrom Asys UVM340 Microplate Reader with KIM s/w
G019065060	Biochrom Asys UVM340 Microplate Reader with MikroWin S/W (screening and curve fit)
G019065070	Biochrom Asys UVM340 Microplate Reader with MikroWin S/W (screening, curve fit & kinetics)
SG010160	QC check plate

Distributors Worldwide



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