

Epoch™ Microplate Spectrophotometer

BioTek's Epoch™ Microplate Spectrophotometer is designed for a wide range of applications, from nucleic acid and protein quantification to cell-based assays.

The Epoch Microplate Reader bridges the gap between high performance, monochromator-based absorbance readers and the lower cost, lower performing filter-based absorbance readers by providing excellent UV/Vis measurements in a compact, efficient and robust design.

Epoch's high quality optical system incorporates a precision monochromator for wavelength selection without using interference filters. Microplate assays in 6- to 384-well plates are quickly and efficiently run via Gen5™ Software. When sample volumes are critical, optional Take3 Multi-Volume Plate allows up to sixteen 2 µL samples to be measured quickly and easily in Epoch.

For the budget conscious laboratory focused on important nucleic acid and protein quantification as well as standard ELISA and other colorimetric assays, the Epoch Microplate Spectrophotometer offers unsurpassed versatility.



Features:

- Monochromator wavelength selection from 200 nm to 999 nm in 1 nm increments
 - 6- to 384-well plate reading capability
 - Automated pathlength correction for direct quantification
 - Spectral scanning, endpoint, kinetic, and well area scanning measurements
 - Gen5™ Microplate Data Analysis software included
 - Integrated detector and electronics for low-noise measurements
 - Xenon flash lamp to last the instrument's lifetime
- Robust housing design for longevity even under heavy usage
- Compatible with Take3™ Multi-Volume Plate for low (2 µL) volume, BioCell™ or cuvette measurements



Epoch is compatible with Take3™ Multi-Volume Plate.

Applications:

- Nucleic acid and protein quantification
- Endpoint or kinetic ELISA
- Spectral scanning
- Cell based assays
- Low-volume nucleic acid and protein quantification with Take3 plate

Models:

Epoch: Microplate Spectrophotometer

Optional Accessories:

- Take3 Multi-Volume Plate
- Gen5™ Secure for 21 CFR Part 11 compliance
- Product Qualification Package
- Patented BioCell™
- Absorbance Test Plate

Specifications:

Microplates:	6-, 12-, 24-, 48-, 96- and 384-well plates
Wavelength Range:	200 nm - 999 nm, selectable in 1 nm increments
Wavelength Accuracy:	±2 nm
Wavelength Repeatability:	±0.2 nm
Absorbance Range:	0 to 4.0 OD
Absorbance Resolution:	0.0001
Bandpass:	5 nm
Read Modes:	Endpoint, kinetic, spectral scanning, well area scanning
Accuracy:	0.0 to 2.0 OD: ±1% ±0.010 OD 2.0 to 2.5 OD: ±3% ±0.010 OD
Repeatability:	0.0 to 2.0 OD: ±1% ±0.005 OD 2.0 to 2.5 OD: ±3% ±0.005 OD
Linearity:	0.0 to 2.0 OD: ±1% ±0.010 OD 2.0 to 2.5 OD: ±3% ±0.010 OD"
Read Speed:	
96-well Normal:	49 seconds
96-well Rapid:	38 seconds
96-well Sweep:	15 seconds
Dimensions:	12"W x 12.5"D x 7.7"H (30.5 x 31.7 x 19.5 cm)
Weight:	14 lbs (6.35 kg)

*Specifications subject to change



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