

Epoch™ Microplate Spectrophotometer

Epoch™ is a monochromator-based microplate spectrophotometer that offers superior functionality for the life science laboratory at an accessible price. Controlled by the powerful, yet easy-to-use Gen5™ Data Analysis Software, Epoch is designed to be the new lab workhorse for a wide variety of applications. For walk-away automation, an optional BioStack™ compatible Epoch is available.

200 nm to 999 nm Wavelength Range

The monochromator-based optical system in Epoch allows any wavelength selection between 200

and 999 nm in 1 nm increments. No filters required! From low UV nucleic acid measurements to standard ELISA assays, Epoch is ideally suited to the life science laboratory where application flexibility is required.

6- to 384-well Microplate Reading

Epoch's optical and mechanical systems are designed to provide optimal measurements in a variety of microplates. The area scanning capability provides multiple measurements across larger diameter wells, resulting in more meaningful data analysis.

Take3™ Micro-Volume Plate Compatible

When sample size matters, as in critical nucleic acid and protein quantification, the Take3 plate provides up to sixteen 2 µL measurements – without needing to dilute important samples.

End Point, Kinetic, Spectral Scanning

There's no need to buy expensive instrumentation to perform a variety of absorbance measurements. Epoch, driven by Gen5 Data Analysis Software, is the ultimate high-value system with maximum assay flexibility.

Typical Applications:

- ▶ Nucleic acid quantification
- ▶ Protein quantification
- ▶ 260/280 and 260/230 purity measurements
- ▶ ELISA
- ▶ Enzyme kinetics
- ▶ Cytotoxicity
- ▶ Cell proliferation
- ▶ Micro-volume assays with Take3 plate





Specifications

General	
Wavelength selection	Monochromator
Read method	End point, kinetic, spectral scan, well area scan
Microplate types	6- to 384-well plates
Other labware	Take3™ Micro-Volume Plate, BioCell
Software	Gen5™ Data Analysis Software
Automation	BioStack™ and 3rd party automation compatible ('R' configuration)
Absorbance	
Wavelength range	200 nm - 999 nm, selectable in 1 nm increments
Light source	Xenon flash
Bandwidth	5 nm
Dynamic range	0 - 4.0 OD
Resolution	0.0001
Monochromator wavelength accuracy	±2 nm
OD accuracy	0 to 2 OD: ±1% ±0.010 OD 2 to 2.5 OD: ±3% ±0.010 OD
OD linearity	0 to 2 OD: ±1% ±0.010 OD 2 to 2.5 OD: ±3% ±0.010 OD
OD repeatability	0 to 2 OD: ±1% ±0.005 OD 2 to 2.5 OD: ±3% ±0.005 OD
Reading speed	96 wells: 15 seconds 384 wells: 31 seconds
Physical Characteristics	
Power	100 - 240 Volts AC. 50/60 Hz.
Dimensions	12" W x 12.5" D x 7.7" H (30.5 cm x 31.8 cm x 19.6 cm)
Weight	<15 lbs (6.8 kg)
Regulatory	CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.

Specifications subject to change. Performance values represent the average observed factory test values.