

Eon™ Microplate Spectrophotometer



Eon™, BioTek's newest Microplate Spectrophotometer combines high-end features such as speed, incubation and robustness with excellent optical performance. The result is a high value microplate reader system. Designed to outperform typical monochromator based absorbance microplate readers, Eon provides absorbance measurements and wavelengths scans in a compact, yet powerful package.

When nucleic acid and protein quantification assays are important, Eon provides a complete UV/Vis wavelength range with "dial-in" convenience – no need for filters!

When sample size is critical, the Take3™ Micro-Volume Plates can be used to measure samples with as little as 2 μ L volumes – ideal for direct nucleic acid and protein quantification.

Add the optional cuvette port and Eon becomes a multi-tasking workstation for a variety of applications. Eon also offers expanded temperature control to 65°C and several shaking options to boost the performance critical to many assays. For added convenience and walk-away automation, Eon is compatible with BioStack™ and other robotic systems.



Features:

- Monochromator wavelength selection from 200 nm to 999 nm in 1 nm increments
- Fast wavelength scanning
- 6- to 384-well plate reading capability
- Cuvette port option
- Orbital and linear shaking
- Temperature control to 65°C
- Automated pathlength correction for direct quantification
- New Gen5™ 2.0 Data Analysis Software included
- Robust housing design for longevity even under heavy usage
- BioStack and 3rd party automation compatible
- Take3 Micro-Volume Plate compatibility for low volume, BioCell or cuvette measurements



Eon™ with optional cuvette port

Applications:

- Nucleic acid and protein direct quantification
- Micro-volume assays with Take3™ plates
- Biofuel research applications
- Cytotoxicity
- Endpoint or kinetic ELISA
- Spectral scanning

Models:

EON: Monochromator-based microplate absorbance reader.
 EONC: Monochromator based microplate absorbance reader with cuvette port.

Optional Accessories:

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



Eon™ is compatible with BioStack™ Microplate Stacker.

Specifications:

General

Detection method:	Absorbance
Read method:	End point, kinetic, spectral scanning, well area scanning
Microplate types:	6- to 384-well
Other labware:	Standard cuvette (C model), BioCell™ and Take3™ Micro-Volume Plate
Temperature control:	4°C above ambient to 65°C; ±0.5°C at 37°C
Shaking:	Orbital, double orbital and linear
Software:	Gen5™ Data Analysis Software
Options:	Cuvette port
Automation:	Compatible with BioStack and 3rd party automation

Absorbance

Light source:	Xenon flash lamp
Wavelength selection:	Monochromator, selectable in 1 nm or greater increments
Wavelength range:	200 - 999 nm
Bandpass:	2.4 nm
Dynamic range:	0 - 4.0 OD
Resolution:	0.0001 OD
Monochromator wavelength accuracy:	±2 nm (microplate and cuvette measurements)
Monochromator wavelength repeatability:	±0.2 nm (microplate and cuvette measurements)
OD accuracy:	0.0 to 2.0 OD ±1% ±0.010 OD 2.0 to 3.0 OD ±3% ±0.010 OD (microplate and cuvette measurements)
OD linearity:	0.0 to 2.0 OD ±1% ±0.010 OD 2.0 to 3.0 OD ±3% ±0.010 OD (microplate and cuvette measurements)
OD repeatability:	0.0 to 2.0 OD ±1% ±0.005 OD 2.0 to 3.0 OD ±3% ±0.005 OD (microplate and cuvette measurements)
Reading speed:	96 wells: 8 seconds 384 wells: 13 seconds

Physical Characteristics

Power:	100 - 240 Volts AC 50/60 Hz
Dimensions:	16" D x 8.5" W x 8.5" H (40.6 x 21.6 x 21.6 cm)
Weight:	24 lbs (11 kg)

Regulatory

For In Vitro Diagnostic use. All BioTek microplate instrumentation is CE and TUV marked.

*Specifications subject to change



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax: 01759 301143

sales@wolflabs.co.uk



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