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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Synergy™ Neo2 Multi-Mode Reader

Synergy™ Neo2 Multi-Mode Microplate Reader is designed for speed and superior performance, incorporating BioTek's patented Hybrid Technology™. Independent optical paths optimize diverse assay requirements with continuously variable bandwidth quadruple monochromators, sensitive filter-based optics, laser-based excitation for Alpha assays and up to 4 PMTs for ultra-fast measurements. Advanced environment controls, including CO₂/O₂ control, incubation to 65 °C and variable shaking are ideal for live cell assays, and direct bottom illumination optimizes cell-based detection.

Synergy Neo2 features a modular design – build the precise configuration to meet your requirements and budget and upgrade when necessary. Barcode-labeled filter cubes help streamline workflows and limit errors. The available plate stacker is the fastest on the market – ideal for high throughput requirements. Powerful Gen5™ Software is included, and features for 21 CFR Part 11 compliance are available in Gen5 Secure.



Speed, superior performance and the best specifications make Synergy Neo2 the standard in multi-mode readers.



Features:

- Patented Hybrid Technology™ with independent filter and monochromator-based optics
- Scientific quad monochromators with continuously variable bandwidth for optimal sensitivity and flexibility
- High performance filter system
- Ultra-fast plate processing speeds with multiple PMT detectors
- Live-cell options: atmospheric control and direct bottom detection
- Driven by best-in-class Gen5™ Microplate Reader and Imager Software for data collection and analysis
- 21 CFR Part 11 Compliance with available Gen5 Secure Software
- BioSpa™ 8 Automated Incubator compatible for live and fixed cell assay automation
- Configurable, upgradable design



Scan with your smart phone to watch the video.

Configurations:

NEO2	Dual top PMT, top filter fluorescence, fluorescence polarization, time-resolved fluorescence, TR-FRET, luminescence, filter luminescence, monochromator UV-Vis absorbance
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Modules:

ALPHA	Adds laser-based Alpha module
B	Adds bottom filter fluorescence module
M	Adds top and bottom monochromator fluorescence

Available Configurations:

- NEO2
- NEO2ALPHA
- NEO2B
- NEO2M
- NEO2ALPHAB
- NEO2MALPHA
- NEO2MB
- NEO2MALPHAB

Other configurations available. Please inquire.

Specifications:

General

Detection mode:	Quad monochromators: FL, Lum., UV-Vis Abs., TRF (secondary) Filters: FL, TRF, FP, Lum., Alpha, TR-FRET, BRET
Read mode:	End point, kinetic, spectral scanning, well area scanning
Microplate types:	1- to 1536-well plates
Other labware:	Compatible with Take3™ Micro-Volume Plates with 2 µL microspots
Temperature control:	To 65 °C with Condensation Control™ Variation ±0.2 °C at 37 °C
Shaking:	Linear, orbital, double orbital
Software:	Gen5™ Microplate Reader and Imager Software included Gen5 Secure Software option for 21 CFR Part 11 compliance features
Automation:	BioStack and 3 rd party automation compatible BioSpa™ 8 Automated Incubator compatible
CO ₂ and O ₂ control:	0 – 20% CO ₂ control and 1 – 19% O ₂ control, with optional Gas Controller
Barcode reader:	Multi-directional, 1D and 2D camera-based
Read height:	Auto Z, 0.1 mm steps, top/bottom (Filters), top (Mono)
Kinetic speed:	96-well: 6 seconds; 384-well: 11 seconds; 1536-well: 25 seconds
With Neo Stacker, minimum processing time per plate:	96-well: 20 seconds; 384-well: 25 seconds 1536-well: 39 seconds

Absorbance

Light source:	Xenon flash lamp
Wavelength selection:	Monochromator
Wavelength range:	230 – 999 nm, 1 nm increment
Bandwidth:	2 nm (230 – 285 nm), 4 nm (>285 nm)
Dynamic range:	0 – 4.0 OD
Resolution:	0.0001 OD

Fluorescence Intensity

Sensitivity:	Filter Cubes: Fluorescein 0.2 pM (384-well low volume plate) – Top Fluorescein 1 pM (1536-well plate) – Top Fluorescein 1 pM (384-well plate) – Bottom Quadruple Monochromator: Fluorescein 2 pM (384-well low volume plate) – Top Fluorescein 2.5 pM (384-well plate) – Bottom
Light source:	High energy xenon flash lamp
Read height:	Auto Z, 0.1 mm steps, top/bottom (Filters), top (Mono)
Wavelength selection:	Double grating monochromators (top/bottom) Filters (top/bottom)
Wavelength range:	Monochromators: 250 – 850 nm Filters Cubes: 200 – 850 nm
Monochromator bandwidth:	Variable, from 3 nm to 50 nm in 1 nm increment excitation/emission

Optional Accessories:

- CO₂/O₂ Gas Controller Module
- BioStack™ Microplate Stacker
- BioSpa™ 8 Automated Incubator
- Dual Reagent Injector Module
- Take3™ Micro-Volume Plate
- Gen5™ Secure for 21 CFR Part 11 Compliance
- Fluorescence, Luminescence, and Absorbance Test Plates

Detection system:	Single PMT or dual PMTs (top filter system) Low Noise PMT bottom filter system Red shifted PMT top/bottom monochromator system
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Luminescence

Sensitivity:	5 amol ATP (flash) (384-well low volume plate)
Wavelength range:	300 – 700 nm
Dynamic range:	>6 decades

Fluorescence Polarization

Sensitivity:	1 mP standard deviation at 1 nM fluorescein (384-well low volume plate) 1.5 mP standard deviation at 1 nM fluorescein (1536-well plate)
Light source:	Xenon flash lamp
Wavelength selection:	Filter cubes (top/bottom)
Wavelength range:	280 – 850 nm
Detection system:	Single PMT or dual PMTs

Time-Resolved Fluorescence

Light source:	Xenon flash lamp
Sensitivity:	Europium 40 fM (384-well low volume plate) Europium 70 fM (1536-well plate)
Wavelength selection:	Filter Cubes (top/bottom) Double grating monochromator (top/bottom)
Wavelength range:	Monochromators: 250 – 850 nm Filters: 200 – 850 nm
Detection system:	Single PMT or dual PMTs

Alpha

Sensitivity:	100 amol LCK peptide (384-well low volume plate)
Light source:	100 mW 680 nm laser
Wavelength selection:	Filter cubes
Read speed:	96-well: 30 seconds 384-well: 1 minute 50 seconds 1536-well: 7 minutes 20 seconds

Reagent Dispensers

Number:	2 syringe pumps
Dispense volume:	5 – 1000 µL, in 1 µL increment
Dead volume:	1.1 ml, with back flush
Plate geometry:	6- to 384-well microplates, Petri dishes
Dispense precision:	≤2% at 50 – 200 µL
Dispense accuracy:	±1 µL or 2%

Physical Characteristics

Power:	250 Watts max.
Dimensions:	16.1 x 15.4 x 20.7 in. (41 x 39 x 52.5 cm) – H x W x D
Weight:	78 lbs (35 kg)

Regulatory

CE and TUV marked, RoHS compliant. In Vitro Diagnostic use models are available.

Performance specification values represent the average observed factory test values.

Hybrid Technology™ is protected under US patent 8,218,141.

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