

# PowerWave™ HT Microplate Spectrophotometer



The PowerWave™ HT incorporates fast 96- and 384-well microplate reading and high performance optics into a very compact footprint, ideal for integration into automated systems. The PowerWave HT also features a 200 – 999 nm wavelength range for filter-free wavelength selection.

BioTek's exclusive 4-Zone™ natural convection incubation and user programmable shaking profiles round out the outstanding feature set available in PowerWave HT. Gen5™ Data Analysis Software provides unprecedented ease of use along with powerful data reduction and output options.



## Features:

- 96-well measurements in as little as 5 seconds
- 200 – 999 nm measurements
- 96- and 384-well plate compatibility
- Automated pathlength correction
- Precise 4-Zone™ temperature control
- Robust hardware designed for rigorous use in automated systems
- Gen5 Data Analysis Software included
- BioStack™ and 3rd party automation compatibility



## Typical Applications:

- Enzyme kinetics
- ELISA
- Genetic analysis by colorimetry
- Cellular analysis by colorimetry
- Cell proliferation

## Configurations:

PowerWave™ HT: High-throughput, 8-channel microplate spectrophotometer

## Optional Accessories:

- BioStack™ Microplate Stacker
- Gen5™ Secure for 21 CFR Part 11 Compliance
- Product Qualification Package
- Absorbance Test Plate
- Patented BioCell™ 1 cm cuvette (and adapter)
- Adapter plate for 1 cm stoppered cuvettes



PowerWave™ HT with BioStack™ Microplate Stacker

## Specifications:

### General

Detection method:	Absorbance
Read method:	End point, kinetic, spectral, linear scanning
Microplate types:	96 and 384 wells
Temperature control:	4-Zone™ incubation from 4 °C above ambient to 50 °C; $\pm 0.2$ °C at 37 °C
Shaking:	Yes
Software:	Gen5™ Data Analysis Software
Automation:	Compatible with BioStack and 3rd party automation

### Absorbance

Light source:	Xenon flash lamp
Wavelength selection:	Monochromator, selectable 1 nm or greater increments
Wavelength range:	200 – 999 nm
Bandpass:	5 nm
Dynamic range:	0 – 4.0 OD
Resolution:	0.001 OD
Monochromator wavelength accuracy:	$\pm 2$ nm
Monochromator wavelength repeatability:	$\pm 0.2$ nm
OD accuracy:	1% $\pm 0.01$ OD
OD linearity:	$\pm 1\%$
OD repeatability:	0.5% $\pm 0.005$ OD
Stray light:	0.03% at 230 nm
Reading speed:	96 wells: 5 seconds 384 wells: 11 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. CE and TUV marked, RoHS compliant.



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Performance values represent the average observed factory test values.

\*Specifications subject to change.

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