

Denville Zenyth 200

Microplate Reader



The Zenyth 200 is a high-performance microplate reader with a built-in UV-Vis spectrophotometer providing an indispensable tool for life science and pharmaceutical research laboratories

Key Features

- PC-controlled microplate reader - easy transfer of data to analysis software
- Monochromator optics with wavelength range of 190-1000 nm - no filters needed
- Single, dual or multi-wavelength, endpoint, kinetics, wavescan, linear and area well scanning - flexible in application type
- Temperature control: 4°C above ambient up to 45°C - ideal for enzymatic assays
- Handles multiple plate formats from 6 - 384 well microplates - flexibility in plate type
- Built in cuvette UV/Vis spectrophotometer - saves bench space and money

Software

The Zenyth 200 is supplied with ADAP Basic software which includes user administration, instrument control, data collection, storage and export. ADAP Prisma offers two powerful modules for more sophisticated applications:

ELISA MODULE:

- Quick read measurements of microplates
- Qualitative evaluations, including cut-off formulas and labelling of samples into groups
- Quantitative evaluations, including curve-fitting and forecasting
- Plate layouts including programming of blanks, standards, and controls.
- Replicates rejection and test validation formulas
- Kinetic assay data reduction
- Multi-test functions applying multiple methods to one plate
- Well scanning methods for assay wells with heterogeneous compositions

QUANTITATION MODULE:

- Cuvette measurement
- Quickly and easily defines and performs quantitative assays, including quantitation of samples with unknown concentrations
- Defines and performs wavescan and multi-wavelength assays
- Pre-installed DNA and RNA methods

TECHNICAL SPECIFICATION	DENVILLE ZENYTH 200 MICROPLATE READER
Photometric method	Single beam monochromator
Light source	Tungsten halogen and Deuterium lamps (warm up 30 min)
Detector	Silicon photodiode
Wavelength range	190-1000 nm
Wavelength accuracy	± 2.0 nm
Wavelength reproducibility	± 0.5 nm
Bandwidth	5 nm
Resolution	0.001 A
Indication range	0.000-4.000 A
Measurement accuracy	<±1.5% at 1 A
Linearity	<±0.7% from 0.1 to 3.0 A (400-750 nm) <±0.7% from 0.1 to 2.0 A (190-399 nm & 751-1000 nm)
Reproducibility	<±0.5% at 1 A and 2 A (400-750 nm) <±0.7% at 1 A (190-399 nm and 751-1000 nm)
Reading speed	18 seconds for single wavelength measurement of a 96-well plate
Temperature control	4°C above ambient to 45°C
Shaking	3 speed
Microplates	6- 384-well plates
Cuvettes	Standard 10 mm pathlength
Power requirement	100-240 VAC, 50/60 Hz
Serial interface	9-pin (RS232) for remote control and data transfer
Self control	Auto-calibration, auto lamp adjustment
Dimensions (wxhxd)	18.7"x10.4"x17.3"
Weight	38.6 lbs

ITEM	ORDER CODE
Denville Zenyth 200 PC-controlled version includes: Dustcover, Spare Fuses, Power Cable, Serial Cable, ADAP Basic Standard Software and User Manual on CD, Adapter for Mouse	DI-9020

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