

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

Biochrom[®] Anthos Zenyth 200

Microplate Reader



Key Features

- PC-controlled microplate reader
- Monochromator optics gives a wavelength range of 190 - 1000nm. No additional filters needed
- Handles multiple plate formats from 6 - 384 well microplates plates
- Built in cuvette UV/Vis spectrophotometer saves bench space
- Temperature control: 4°C above ambient up to 45°C
- Excellent optical specifications (0.001 OD resolution)
- Single, dual or multi-wavelength, endpoint, kinetics, wavescan, linear and area scanning
- Fast measurement:- just 19 seconds for 384 wells (endpoint reading)
- Nine stored cuvette routines for nucleic acid concentration and purity. Up to 50 samples per run
- Integrated Windows CE™ (LAN - interface) for easy data transfer

Applications

- Absorbance measurements: ELISA, total protein quantitation, cell proliferation and cell toxicity assays
- Enzyme kinetic assays requiring automatic readings at timed intervals
- Wavescan for contaminant detection, peak absorbance determination and product formation
- Linear scan: for verification of agglutination and coagulation studies
- Area scan: for precipitation and insolubility studies.
- DNA /RNA/Oligo concentration and purity,
- Cell counting

Software

The Zenyth 200 is supplied with ADAP 2.0 Basic PC Software which includes user administration, device control and data storage/export. Optional upgrade to ADAP 2.0 Prisma PC software is available allowing the user to configure their method analysis by using two powerful modules: the ELISA module and the Quantitation module.

FEATURES OF THE ELISA MODULE:

- Quick read measurements of microplates
- Defines and performs quantitative evaluations, including curve fitting and forecasting.
- Defines and performs qualitative evaluations, including cut-off formulas and labeling of samples into groups.
- Defines plate layouts, including programming of blanks, standards, and controls.
- Eliminates replicates and programs test validation formulas
- Recalculates reduced data from kinetic assays.
- Configures multi-test assays

FEATURES OF THE QUANTITATION MODULE:

- Controls cuvette measurement
- Quickly and easily defines and performs quantitative assays, including quantitation of samples with unknown concentrations
- Defines and performs spectral scan and multi-wavelength assays
- Pre-installed methods allows for quick DNA/RNA measurements and analysis

TECHNICAL DETAILS

Biochrom Anthos Zenyth 200 Microplate Reader with UV-Vis Spectrophotometer

Photometric method	Single beam monochromator
Light source	Tungsten halogen and Deuterium lamps (warm up 30 min)
Photodetector	Silicon photodiode
Wavelength range	190-1000nm
Wavelength accuracy	± 2.0nm
Wavelength reproducibility	± 0.5nm
Bandwidth	5nm
Resolution	0.001 OD
Indication range	0.000 - 4.000 OD
Measurement accuracy	<±1.5% at 1 OD
Linearity	<±0.7% from 0.1 to 3.0 OD (400-750nm) <±0.7% from 0.1 to 2.0 OD (190-399nm & 751-1000nm)
Reproducibility	<±0.5% at 1 Abs and 2 Abs (400-750nm) <±0.7% at 1 Abs (190- 399nm and 751-1000nm)
Reading speed	96 wells 18 seconds
Temperature control	4°C above ambient up to 45°C
Shaking	3 speed
Microplates	6- 384 well plates with standard ANSI SBS footprints
Cuvettes	Standard 10mm path length, 5-10mm path width cuvettes
Power requirement	100-240VAC, 50/60Hz
Serial interface	9-pin (RS232) for remote control and data transfer
Self control	Auto-calibration, auto lamp-adjustment
Dimensions (wxhxd)	47.5cm x 26.4cm x 44 cm (18.7"x10.4"x17.3")
Weight	17.5Kg (38.6lbs)

ORDERING INFORMATION:

GF 25 700 01	Anthos Zenyth 200rt PC controlled version includes: Dustcover, Spare Fuses, Power Cable, Serial Cable, ADAP 2.0 Basic Standard Software and User Manual on CD, Adapter for Mouse
SB035083	ADAP 2.0 Prisma Software

Distributors Worldwide



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