

The Anthos Zenyth 200 is a high performance microplate and cuvette spectrophotometer providing an indispensable research tool for Life Science and Pharmaceutical research laboratories



Zenyth 200 Microplate Reader

Key Features

- Wavelength range: 190 -1000nm
- Excellent optical specifications (0.0001 Abs resolution)
- Measurement modes: endpoint, kinetic, multichromatic, spectral scanning and position scanning
- Multiple plate formats: cell culture plates (6-48) and 96/384 well plates
- Cuvettes format: standard cuvettes, 10mm pathlength, 5-10mm pathwidth
- Temperature control: 4°C above ambient up to 45°C
- Fast measurement: 11 seconds for 96 wells 19 seconds for 384 wells (endpoint reading)
- Optional ADAP Prisma Software (refer to ADAP Software data sheet for details)

ADDITIONAL FEATURES FOR STAND ALONE

- Comprehensive onboard software with stored routines for nucleic acid quantitation and characterisation (equivalent to ADAP Prisma functionality)
- Integrated Windows CE™ (LAN - interface) enables data transfer from the laboratory to the office

Software

Both Zenyth 200 models are supplied with:

- **ADAP Basic PC Software:** Includes user administration, device control, data storage/export, kinetic data reduction, scanning and shaking.

This may be upgraded to:

- **ADAP Prisma PC Software:** consisting of two powerful modules- the ELISA module and the Quantitation/Characterisation module allowing the user to adapt individual requirements to specific applications

The stand alone version Zenyth 200st has in addition on board software equivalent to the **ADAP Prisma**.

Main Application Areas

- Nucleic Acids: Concentration and purity
- ELISA: Endpoint and kinetic
- Proteins: Direct and colorimetric quantitation (Bradford, Lowry and BCA assays)
- Cell based assays: Cytotoxicity, cell proliferation, Apoptosis, reporter assays
- Enzyme Kinetics: Activity determination of purified enzymes or from cellular fractions



TECHNICAL DETAILS

Anthos Zenyth	200rt	200st
Instrument Description: Microplate Spectrophotometer	✓	✓
Light Source: Tungsten Halogen and Deuterium Lamps	✓	✓
Photodetector: Silicon Photodiode	✓	✓
Wavelength Range: 190 - 1000nm	✓	✓
Bandwidth: 5nm	✓	✓
Resolution: 0.0001 Abs	✓	✓
Absorbance Range: 0.000 - 4.000 Abs	✓	✓
Reproducibility:		
<±0.5% at 1 Abs and 2 Abs (400 - 750nm)	✓	✓
<±0.7% at 1 Abs (190 - 399nm and 751 - 1000nm)	✓	✓
Linearity:		
<±0.7% and ±0.005 Abs from 0.1 to 3.0 Abs (400 - 750nm)	✓	✓
<±0.7% and ±0.005 Abs from 0.1 to 2.0 Abs (190 - 399nm and 751 - 1000nm)	✓	✓
Accuracy: <±1.5% at 1 Abs	✓	✓
Wavelength Reproducibility: ± 0.5nm	✓	✓
Wavelength Accuracy: ± 2nm	✓	✓
Sample Holders:		
6 - 384 well plates, standard cuvettes (10mm pathlength, 5-10mm pathwidth)	✓	✓
Reading Speed: 96 well - 11 seconds, 384 well - 19 seconds	✓	✓
Temperature Control: 4°C above ambient up to 45°C	✓	✓
Shaking: 3 speeds	✓	✓
Power Supply:		
Voltage Range: 100 - 240V (autosensing), Frequency range: 50/60Hz	✓	✓
Operating System: Windows CE 3.0		✓
Serial interface: 9-pin, (RS 232) for remote control and data transfer	✓	✓
Parallel printer interface: 25-pin, with PCL support (HP)		✓
2 x USB (Floppy Drive, Mouse, Keyboard), LAN/Ethernet, VGA, ext. Mouse and Keyboard		✓
Standard Software: ADAP Basic	✓	✓
Self control: auto-calibration, auto lamp-adjustment, status report	✓	✓
Dimensions: 47.5cm x 26.4cm x 44.0cm (wxhxd)	✓	✓
Weight: 17.5Kg (Zenyth 200st),16.5Kg (Zenyth 200rt)	✓	✓
Scope of Supply:		
Dustcover, Spare Fuses, Power Cable, Serial Cable, Standard Software and User Manual on CD	✓	✓
Adapter for Mouse		✓
Options: additional Software ADAP Prisma (including ADAP Basic)	✓	✓

AVAILABLE CONFIGURATIONS:

Zenyth 200rt PC controlled version, serial interface, ADAP Basic software, temperature control	Zenyth 200st Stand alone version, onboard software, ADAP Basic software, temperature control
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ORDERING INFORMATION:

Zenyth 200rt	GF 25 700 01	Zenyth 200st	GF 25 800 01
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