

The logo for the Vimek Y200, featuring a stylized blue 'V' with an orange dot above it, followed by the number '200' in a large, bold, black font.

**Fully Automated
Biochemistry Analyzer**



Fully Automated Biochemistry Analyzer

- ◆ Discrete, random access, fully automated
- ◆ Up to constant 200 tests per hour
- ◆ Optional for external bar code reader
- ◆ 60 positions for samples and 60 positions for reagents
- ◆ Automatic probe cleaning, liquid level detection, collision protection
- ◆ Reversed optic system with 8 wavelengths
- ◆ Refrigerated reagent and sample compartment



Product Features

Operating System

- English operating system: Windows2000, windows XP, windows 7, windows 8, windows 10
- Make print format and content freely, provide several common formats
- Special user management password, rational distribution of user operation permissions
- RS-232 standard interface, support for intranet, remote print report Optional various databases, auto save, automatic backup, save all kinds of data permanently
- Real-time monitoring of sample tray, reagents tray, reacting tray;
- Real-time display of reaction temperature, reagent allowance, reaction curve, calibration curve and quality control chart
- Check and judge reaction endpoint, reaction linear interval, substrate exhaustion, reagent blank absorbance, etc.

Reagent / sample Handling

Reagent/Sample tray : 60 sample positions and 60 reagent positions in cooling system (4-16°C)

Reagent/Sample probe : Liquid level detection, collision protection and real-time volume check

Probe cleaning : Automatic washing for both internal and external Carry-over < 0.1%

Reaction cuvettes cleaning system

Using unique high efficiency water cleaning method, low carry-over



Sampling and mixing system

Sample volume : 2-30 μ L, 0.1 μ L increasing

Sample probe : Sharing with the reagent probe, the inner and outer walls are highly polished, with the function of liquid level detection, tracking and collision protection, sample probe matching special cleaning liquid, prevent cross contamination

Reagent volume : 20-300 μ L, 0.1 μ L increasing

Reagent probe : Sharing with the sample probe

Reagent bottle : Reagent bottles with volume of 15mL, 20mL, 30mL, 50mL, 60mL, 70mL can be used, the dead volume is less than 1mL.

Mixing bar : Independent mixing bar, special material, surface treatment using Teflon, not hanging liquid, thoroughly clean before and after mixing to prevent cross contamination.

Calibration and quality control

Quality control type : Real time quality control, daily quality control, day to day quality control Quality control charts L-J, Cumulative, Twin Plot.
The quality control rules are arbitrarily formulated by default to Westguard multiple rules.

The calibration type : Linear and nonlinear. Logit-4P, Logit-5P, Spline, exponent, polynomial, factor method
Automatically check the calibration curve and select the best calibration type of the fitting degree automatically.



Analysis system

Working mode	: Discrete/random access
Test speed	: Test speed 200T/H (without ISE)
Test principle	: Absorbance photometry, Turbidimetry
Methodology	: End-point, Fixed-time, Kinetic, Single/Dual reagent chemistries, monochromatic/bichromatic Linear/non-linear multi-point calibration.
The longest reaction time	: 15 minutes
Minimum reaction volume	: 150μl
Cuvettes material	: plastics (quartz glass can be selected), 81 cuvettes have the function of automatically deducting reagent and sample blanks
Linear range of absorbance	: 0-3.8Abs Halogen light source life time ≥ 2000 hours
Wavelength	: 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 670nm
Refrigeration system	: water medium uniform refrigeration technology
Reagent storehouse temperature	: 4-16°C
Reaction temperature	: 37±0.2°C
Temperature fluctuation	: ±0.1°C

Working Conditions

Temperature	: 10°C - 30°C
Humidity	: ≤85%
Maximum Water Consumption	: <12L
Power Supply	: 200-240V 50/60HZ 600W
Dimension	: 834mm(w)×643mm(D)×756(H)
Net weight	: 65KG
Gross weight	: 98KG