**BIOBASE CHINA** BIOBASE®

# Auto ELISA Processor BIOBASE4001



# Introduction:

Auto ELISA Processor BIOBASE4001 is a fully automatic detection equipment that integrates sample addition, incubation, shaking, washing, and reading It is widely used in hospital laboratories, disease prevention and control centers, blood centers, and blood banks, animal and plant inspection and quarantine institutions, scientific research institutions, university laboratories and other

### Features:

- Motor the principle of pressure type liquid detection.
   With TIP detection, clot detection function.
   Migh-reasion pipeting, the lowest volume can reach 5ul.
   Position sensing, real-time monitoring of gripper

- status.

  (S). Multi-spacing and multi-strength adjustable grippers can be adapted to grasp and place microplates and plate covers of offerent sizes.

  (E). Dual thread control, can run simultaneously with the
- sampling arm without interfering with each other



Sampling Module

Smart Gripper Module Safe, ratiable, stable, efficient, fast and accurate gripper. With position sensing system Real-time monitoring of the grabbing process to prevent falling.



Shaking Incubation Module
12 independent temperature-controlled shaking incubation modules.
3-level shaking.

Temperature range: RT~60°C. Plate cover design to avoid strong light interference.



# Microplate Washer Module

2 independent microplate washers, 16-channel (32-pin) washer head, 5-way cleaning solution. Injection uniformity CV < 1.5%, residual volume  $< 1 \mu L$ /well. Program adjustable, applicable to microplates of different sizes.



Microplate Reader Module

Bull-in high-precision microplate reader. Single and dual wavelength detection, ten filter positions. Wide absorbance range, high sensitivity, good repeatability and strong stability.

## Parameters:

	The state of the s	
	Sample Racks	12*16 push-pull sample rack with detection
	Sampling Channel	4 channels
	Liquid Level Detection	Air pressure level detection, clot detection function
	TIP	1000ul. 5 TIP racks
Sample& Reagent Unit	Pipettina	5ul~1000ul
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	Dinetting Precision	100ul: CV≤0.5%, Accuracy≤2.0%
		1000ul: CV≤0.5%, Accuracy≤0.5%
	Reagent Position	6 Reagent racks, reagent tanks with detection
	Washer	2 units
Washing Unit	Washing Head	16-channel (32-pin), double row cleaning, hanging installation, with leakage recovery
0	Injection Uniformity	CV < 1.5%
	Washing Residual	
	Reading Channels	8 independent photometric channels, mono and dichromatic reading
	Linear Range	0.000-3.000Abs
	Repeatability	CV<1.0%
:	Stability	<±0.003Abs
Reading Unit	Optical Filters	4 standard filters (405,450,492,630nm); Total 10 filters positions
	Reading Accuracy	≤±0.02Abs from 0.0 to 1.0 OD, ≤±0.03Abs from 1.0 to 2.0 OD
	Sensitivity	≥0.01mg/L
	Channel Difference	<0.02Abs
	Incubators	12 shaking incubators
	Cover Positions	2 (12 covers)
	Heating Method	Dry heating with cover
Incubation Unit	Shaking Function	Horizontal circular oscillation, 1-3 levels adjustable, amplitude 2.5mm
	Temperature Range	RT to 60 °C
	Temperature Uniformity	0.5°C
	Temperature Fluctuation	2,90+
	Software	Above Windows 7 system
	I S System	Ri-direction support HI 7 protocol
tuonomonomon oto	Doculto	Absorbance and receipt regionable by cofficers
Data Management	Results	Absolutation desuits reviewable by software
	Printer	External optional
	Built-in Scanner	Optional
	Biosafety Protection	Optional (Negative pressure working zone, HEPA filter)
Other Eurotion	Disinfection	UV lamp
	Lighting	LED
	IAP Function	Firmware can be upgraded online at any time
	Power Supply	AC220V±10%, 50/60Hz(Standard); 110V±10%, 60Hz( Optional)
Working Condition	Temperature	10~40°C
0	Humidity	30~80%
	External Size (W*D*H)	1775*190*1683mm
	Net Weight	445kg
Size & Weight	Package Size(W*D*H)	Machine: 1915*930*1150mm; Base Stand: 1905*920*995mm Accessories: 1370*930*530mm
	Gross Weight	Machine: 364.5 kg; Base stand: 208.5 kg; Accessories: 97kg