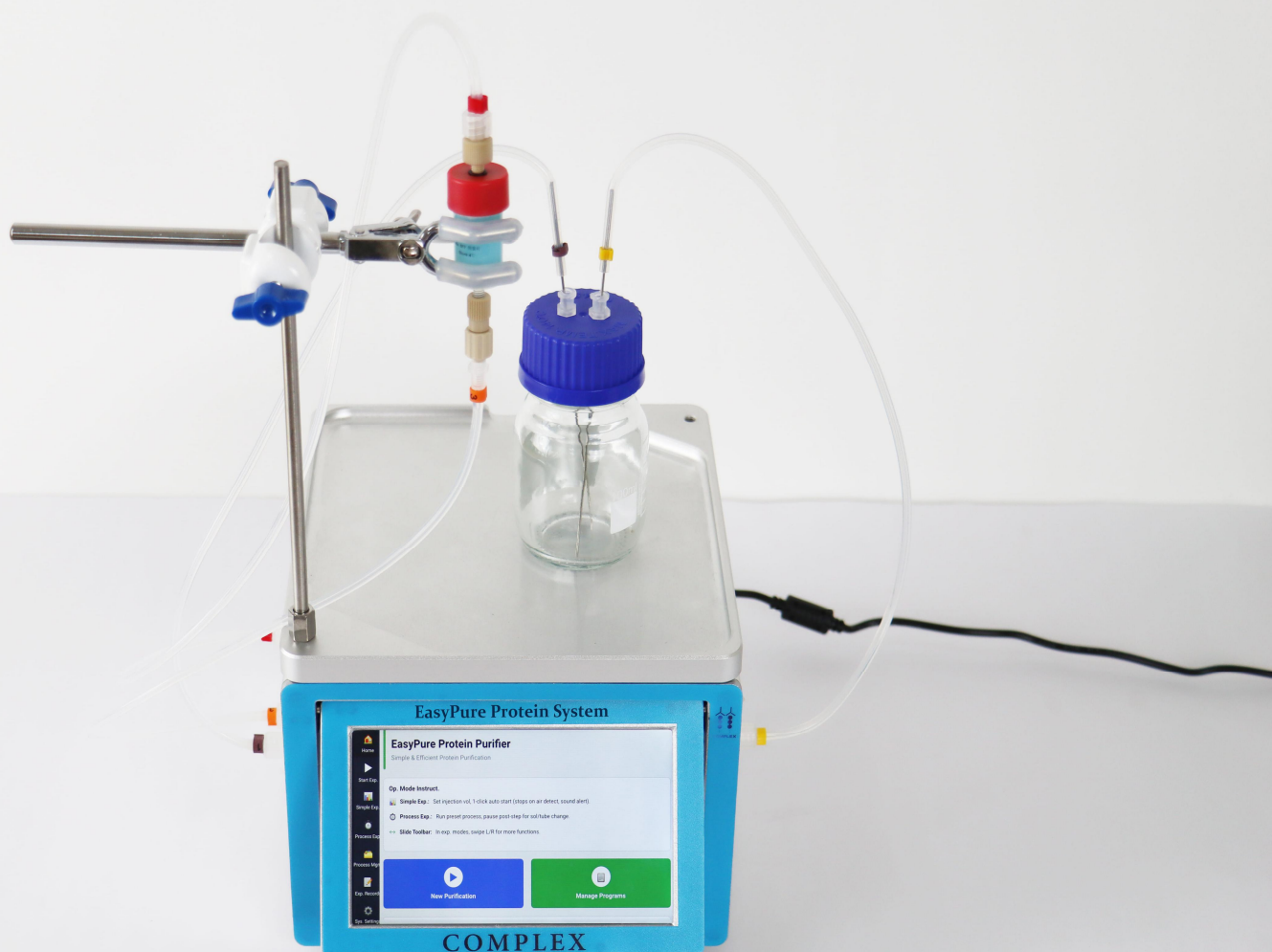




Brand-New Xiaoyi Protein Purification System

Precise, Efficient, Cost-Effective - Empowering Every Scientific Research Dream

► Application Scenarios:

Gravity Column · Desalting Column · Molecular Sieve · Ni Column · Antibody Affinity Purification, etc.

6 Antibodies = Automatic Protein Purification System

Advantages of Xiaoyi Protein Purification System

Fully automated operation:

Free your hands, one-click launch
Zero-threshold quick start
Boost experiment efficiency by
80%!

Precise and stable:

The intelligent system minimizes human error, achieving up to 99% data repeatability!

ultra-low cost:

Priced at just **1/10th** of imported instruments

1/6th of other domestic equipment

Pain Points of Manual Purification

time-consuming and labor-intensive:

Complex operation steps require full-time manual monitoring, resulting in low efficiency.

High risk of errors:

Human operations are prone to mistakes, leading to poor result repeatability and low data reliability.

High costs:

Excessive reagent waste, significant labor input, and prohibitive prices of imported equipment.



**Domestic substitution
for imports →**



Low Investment, High Return: The saved budget can be invested in more critical experiments to accelerate scientific research breakthroughs!

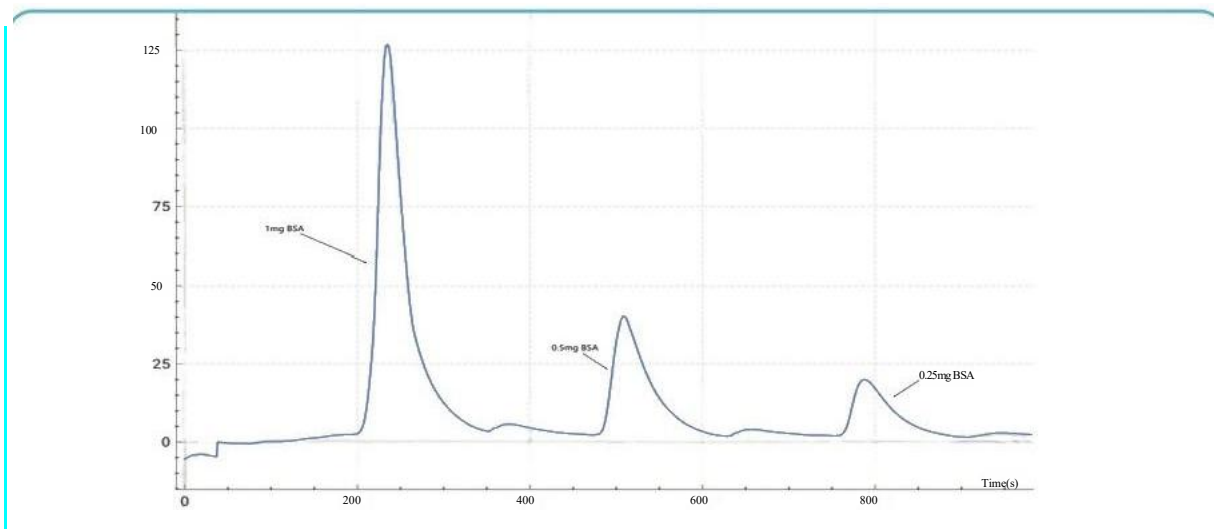
CoreHighlight

Define a New Benchmark for Protein Purification

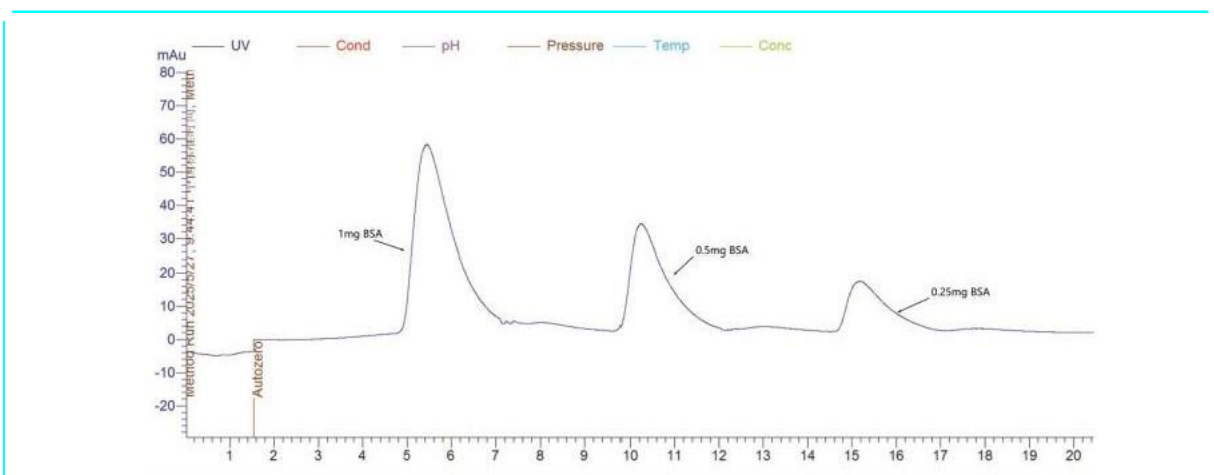


【Precise Detection, No Details Overlooked】

10mm Long Optical Path Detection: 3x higher sensitivity, replaces imported instruments, and easily captures low-concentration protein signals! Detection sensitivity comparable to Akata:



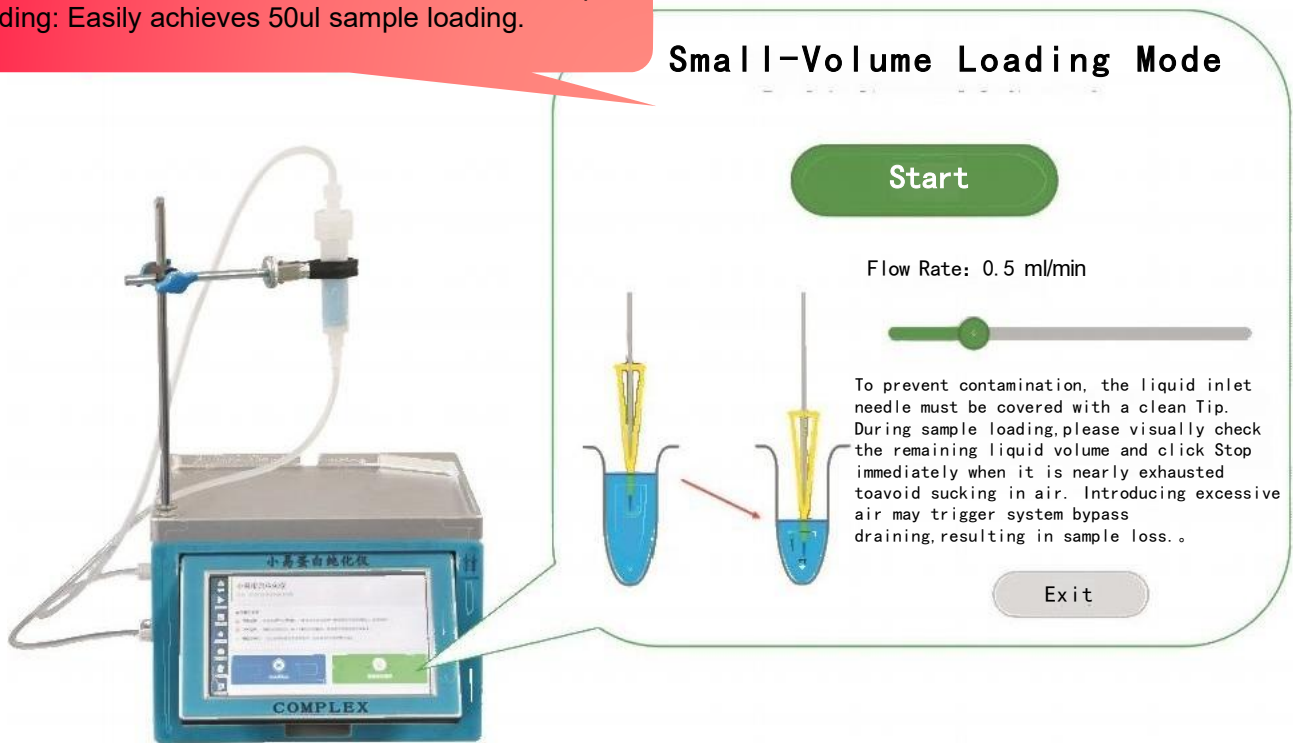
Xiaoyi Protein Purification System Results



Akata Results

► **Micro Detection Volume:** Saves precious samples, especially suitable for rare protein research.

Innovative Small-Volume Contamination-Free Sample Loading: Easily achieves 50ul sample loading.



【Precise Detection, No Details Overlooked】

Deep UV LED Light Source: Service life exceeds **10,000 hours!** No frequent replacement required. Maintenance cost reduced by **90%↓**



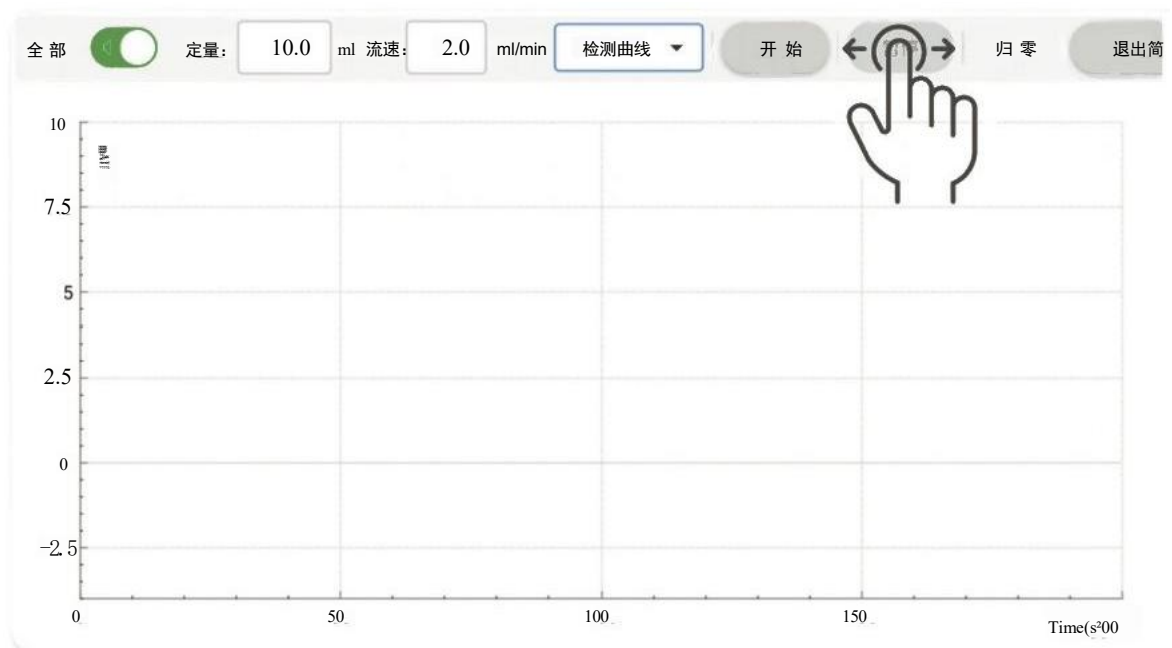
【Intelligent Interaction, Smooth Operation】

6-inch High-Definition Touch Screen: A light tap with your fingertip, and parameter setting & process monitoring are completed in one go.



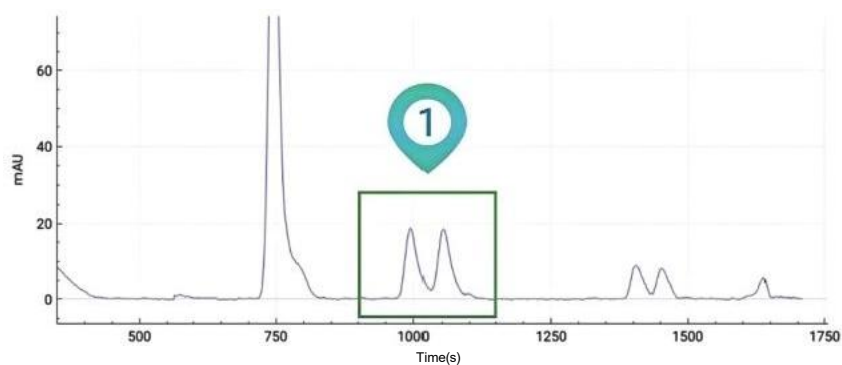
The Simple Experiment Mode requires no training, features zero threshold, and enables immediate experiment initiation.

Slide the toolbar left or right with one finger—keeping the interface concise yet functionally powerful.

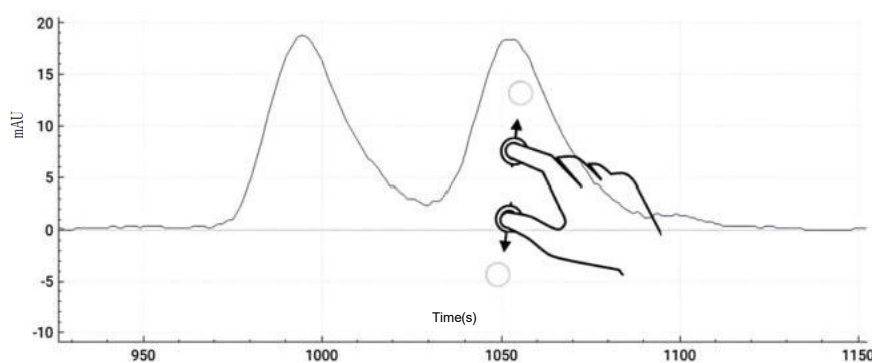


Two-Finger Zoom Curve Analysis

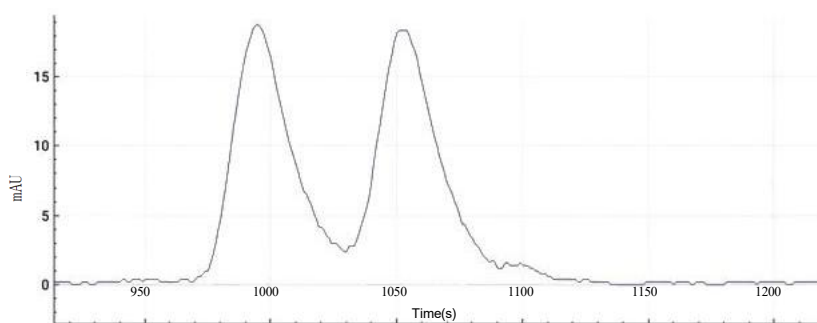
Accurately locate micro-peaks, and gain one step ahead in data analysis!



Intelligent Zoom: In the upper graph area, the X-axis or Y-axis zoom is automatically adjusted according to the two-finger sliding direction to accurately focus on the target area.

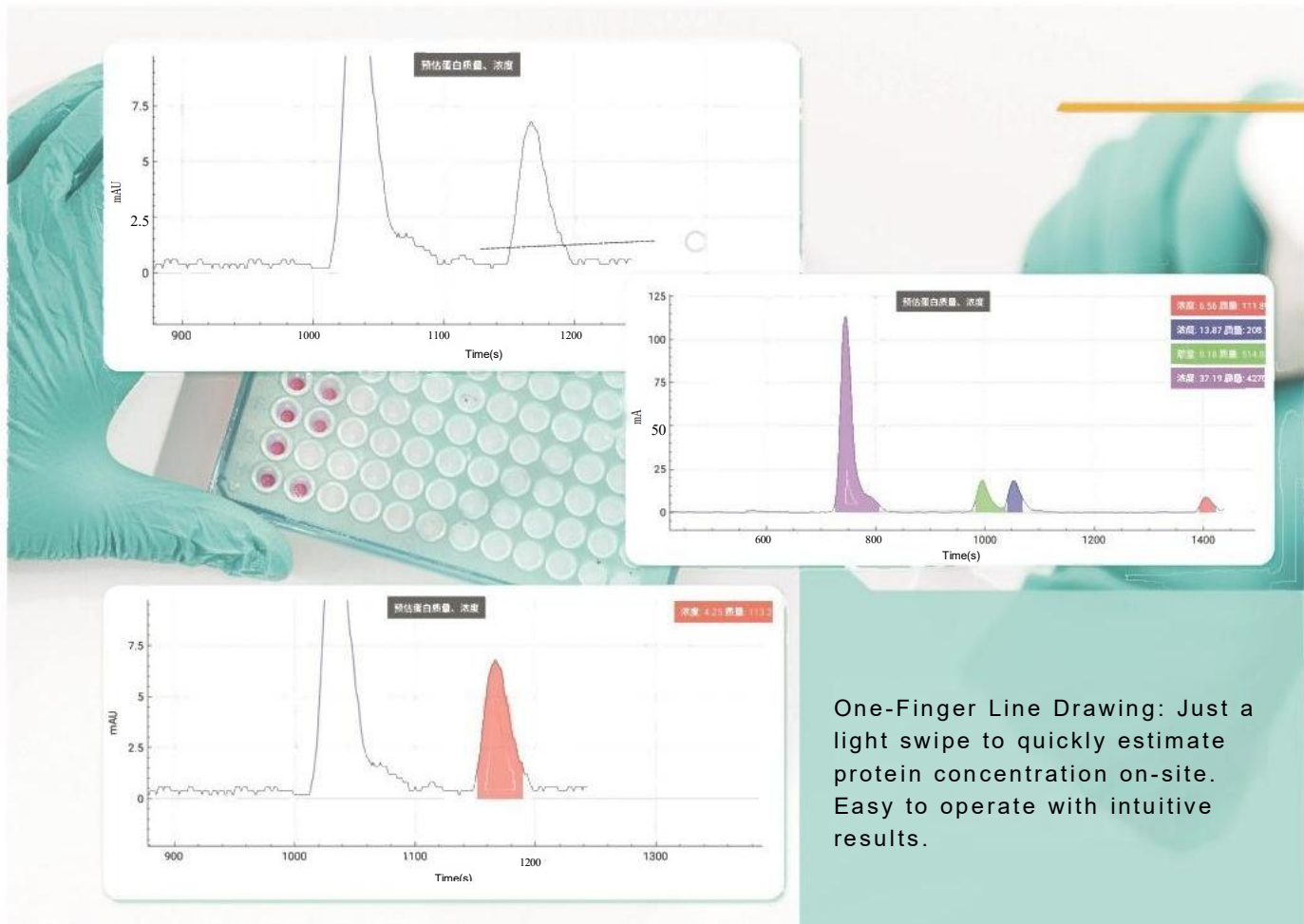


Two-finger zoom for dual-peak results in the upper graph area



One-Finger Line Drawing Concentration Estimation

Real-Time Protein Concentration Prediction, enabling lightning-fast experimental decision-making!



One-Finger Line Drawing: Just a light swipe to quickly estimate protein concentration on-site. Easy to operate with intuitive results.

【Total Safety Assurance, Full Protection Throughout Experiments】

Automatic Sample Depletion Pause Function with Pop-up & Audio Alerts: 

A high-performance ultrasonic bubble sensor (compatible with various solutions and sample matrices) is adopted to detect air bubbles in the pipeline. The system immediately pauses upon detecting air when reagents are depleted. Upon resumption, the instrument purges air via the bypass, which ensures the chromatography column packing remains moist and eliminates the need for lengthy sample loading waits.



【Compact & Portable,
Flexible & Versatile】

Weighs only **3 kg** with a mini size: Can be easily placed in a 2–8°C refrigerator to meet low-temperature purification needs!



【Precise Impurity Removal &
Ultra-Fast Purification】

Acridinium Ester Desalting System

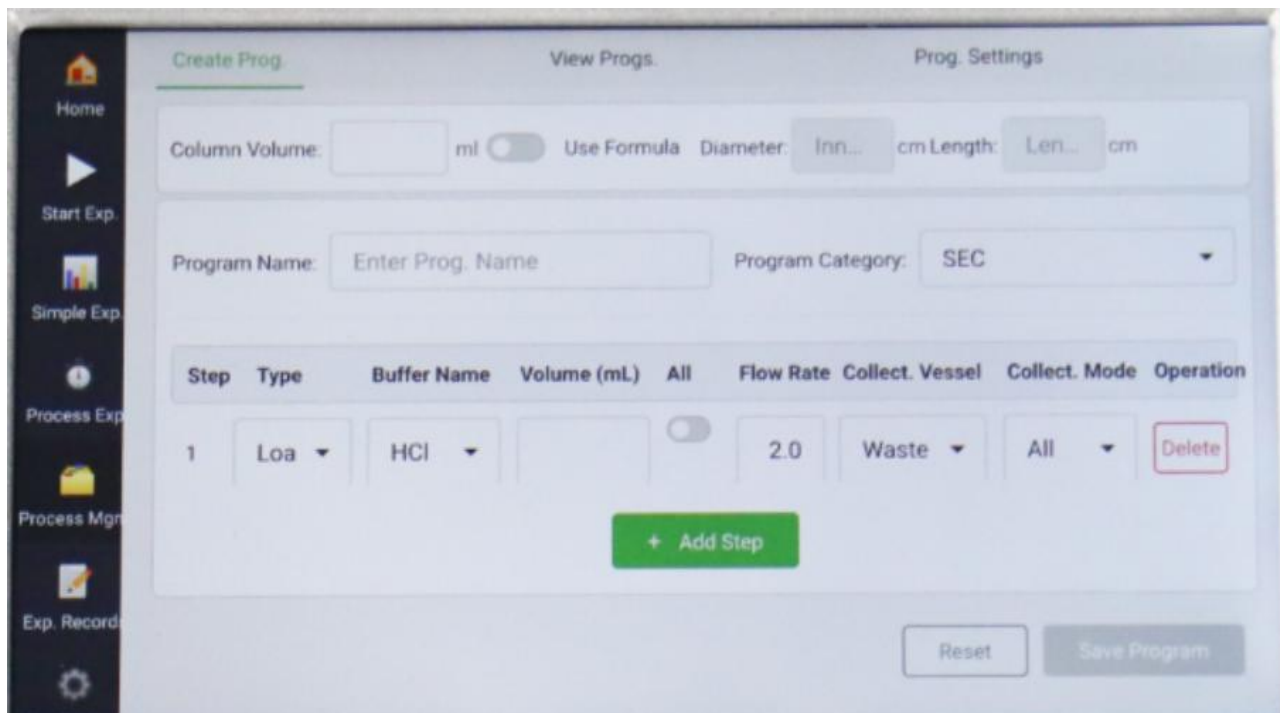
Elevate Your Labeling Experiments



Featuring the original cost-effective 50 μ L small-volume contamination-free sample loading, this system captures protein peaks, performs desalting, and accommodates other fluorescent labeling applications. It enables clear differentiation between protein peaks and acridinium ester peaks, with visualized images providing solid evidence for purification. A full range of validated pre-packed desalting columns and pre-packed protein chromatography columns are available as accessories — ready-to-use out of the box, eliminating the hassle of column selection!

【Workflow Experiment Mode Covers All Protein Purification Application Scenarios】

The Workflow Experiment Mode enables efficient completion of size-exclusion chromatography, antibody affinity purification, ion-exchange chromatography, hydrophobic interaction chromatography, desalting, buffer exchange, and Ni-NTA affinity chromatography, meeting the needs ranging from basic separation to complex sample processing.



The workflow experiment will automatically pause and prompt before the start of each step; simply position the steel needle correctly as instructed to resume the experiment.

Experimental Step Prompts

About to perform a quantitative liquid dispensing experiment

Please ensure that the left liquid inlet needle has been inserted

**Equilibration
Buffer**

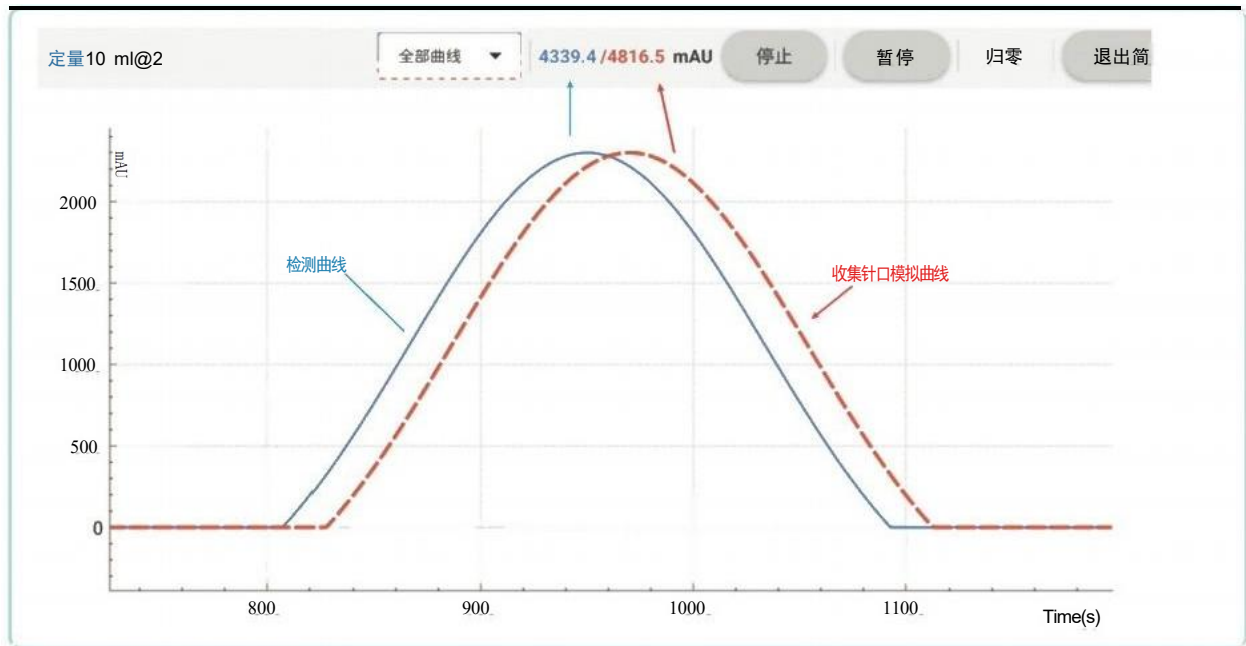
Please ensure that the right liquid inlet needle has been inserted

**Waste Liquid
Container**

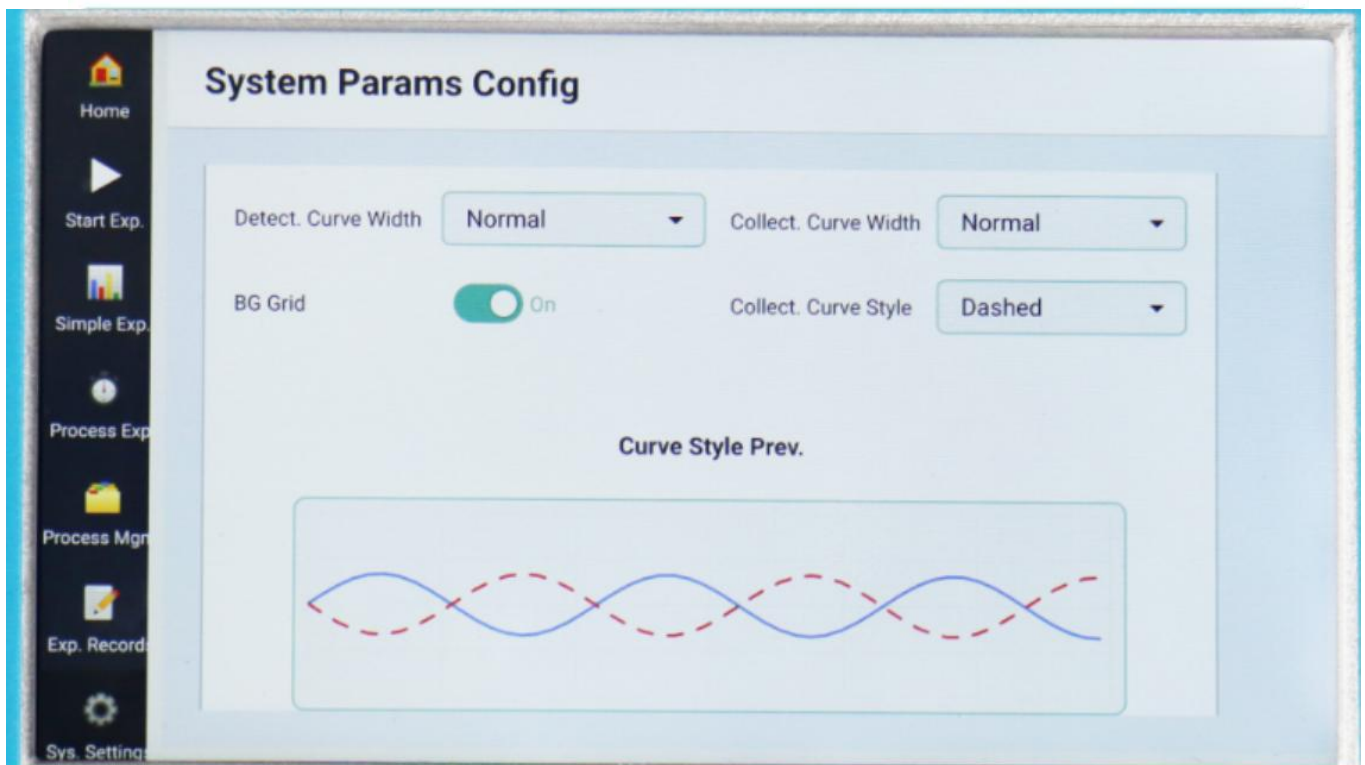
OK

More Highlights

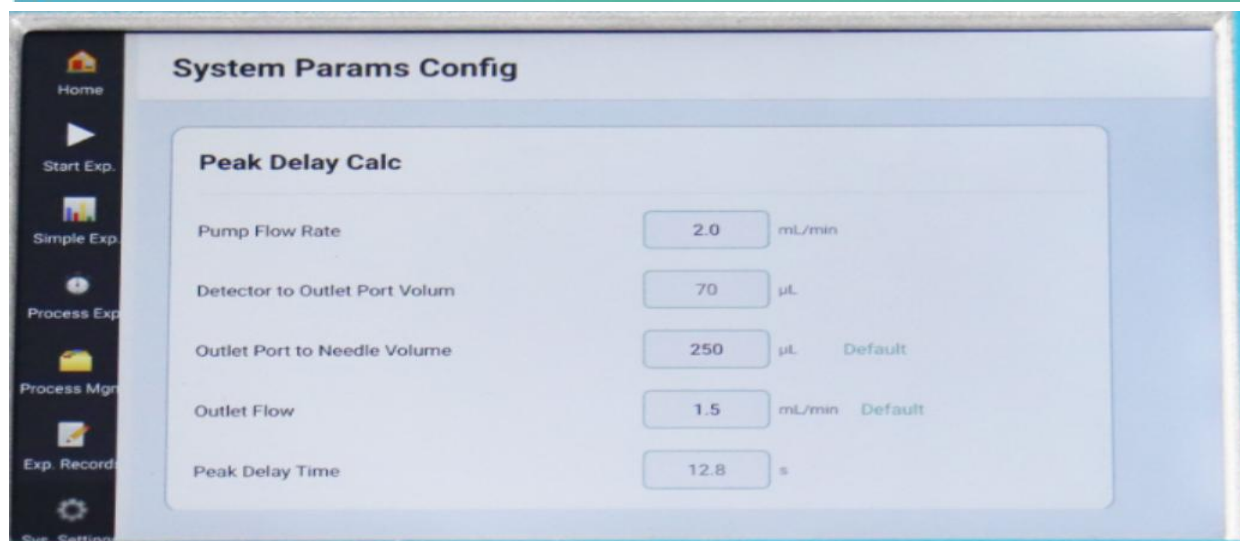
- 1: Innovative collection curve perfectly simulates the OD value of the collection port



- 2: Customizable Curve Styles



▶ 3: Various Open Parameter Interfaces for a More User-Friendly & Reliable Xiao Yi!

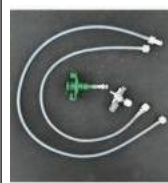
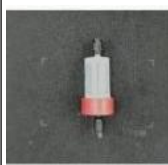
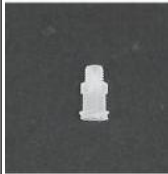


Instrument Parameters

Name	Xiaoyi Protein Purification System	Detection optical path	10mm
Model	CJY-02	Applicable hoses	Inner diameter (1-3)mm
Liquid Circuit Drive Pump	Peristaltic Pump	Display	6-inch color Android LCD touchscreen
Liquid Circuit Flow Rate	0.1-10ml/min	Screen size (mm)	134mm x 76mm
Liquid Circuit Pressure	0.7Mpa	Power supply (V)	12V
Chromatography Column	Maximum Clamp 4.5cm	Operating temperature	Temperature 0-40° C (can be placed in a refrigerator at 2-8° C)
Solution Drying Detection	Automatic Stop, Alarm Prompt	Relative humidity	<95%
Bubble Detection	Ultrasonic Bubble Sensor for Automatic Bubble Removal	Wireless connection	2.4G Wifi, Bluetooth
Protein Detection Light Source	Deep Ultraviolet LED	Power (W)	36W
Protein Detection Wavelength	280nm	Weight (kg)	3kg
Detection Volume	32u1	Dimensions (main unit)	204mm*171mm*154mm

Chromatography Column List

Product Number	Product Name	Specifications	picture
CJY-03-03	3ml Low-Pressure Chromatography Column	1piece/pack	
CJY-03-0350	3ml Low-Pressure Chromatography Column	50piece/pack	
CJY-03-03-KIT	3ml Low-Pressure Chromatography Column + Connector Kit	set	
CJY-03-10	10ml Low-Pressure Chromatography Column	1piece/pack	
CJY-03-1050	10ml Low-Pressure Chromatography Column	50piece/pack	
CJY-03-10-KIT	10ml Low-Pressure Chromatography Column + Connector Kit	set	
CJY-03-50	50ml Low-Pressure Chromatography Column	1piece/pack	
CJY-03-5020	50ml Low-Pressure Chromatography Column + Connector Kit	20piece/pack	
CJY-03-50-KIT	3ml Low-Pressure Chromatography Column	set	

Product Number	Product Name	Specifications	picture	
CJY-03-GJG01	Dedicated connecting tubing	1M		
CJY-03-GJG02	Dedicated connecting tubing	0.5M		
CJY-03-LJQ	Connector kit	1set		
BMPCC01-1mL	Medium-pressure chromatography column - 1mL	1mL		
BMPCC02-5mL	Medium-pressure chromatography column - 5mL	5mL		
BMPCC03-1.3mL	Medium-pressure chromatography column - 1.3mL	1.3mL		
BMPCC04-5mL	Medium-pressure chromatography column - 5mL (long)	5mL		
BMP1032	Medium-pressure chromatography column connector	piece		
CJY-03-STF	Three-way shut-off valve	piece		

Low-pressure chromatography column size

volume (ml)	outer diameter (mm)	Inner diameter (mm)	Column height (mm)
3	11.41	9.58	75.18
10	18.00	15.50	90
55	25.20	22.40	172.00

Medium-pressure chromatography column size

