

iRBPR-600 Pesticide Residue Detector

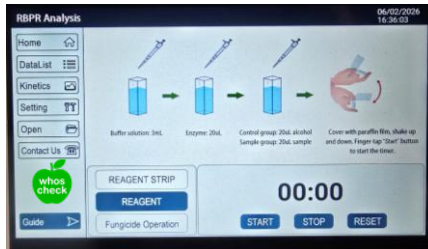
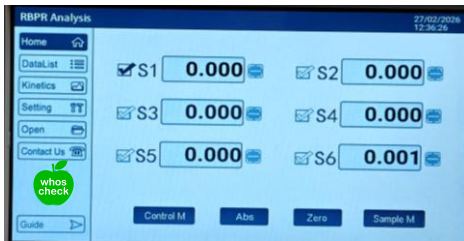


The **iRBPR-600** is an intelligent optical instrument designed for rapid pesticide residue screening in fruits and vegetables, based on a **biochemical detection method promoted by TARI**. It supports **multi-wavelength detection for insecticides, fungicides, and pyrethroid pesticides**, with the ability to test up to five samples simultaneously, improving efficiency while **reducing time and cost**.

With **built-in voice and animated guidance, automatic timing**, and integrated data storage, export, and **AI-assisted analysis**, the iRBPR-600 ensures accurate operation and enhances the credibility of test results.

Features

- **Clear & Intuitive Touch Interface:** Features a 7-inch color touch screen (Chinese/English) for high visibility and effortless operation.
- **Intelligent Guidance:** Built-in voice prompts and animated step-by-step guides ensure error-free operation.



- **Multi-Wavelength Detection:** Configurable for Insecticides (412nm), Fungicides (540nm), and Pyrethroid Pesticides (505nm).
- **Real-time Curve Printing:** Features real-time plotting during the detection process. Upon completion, the system automatically prints absorbance change values every 10 seconds along with inhibition rate results.



No.	Cell	Abs(init)	dA/min	Inhibit	Time	Memo
000	S1	0.308	0.454	0.0	27/02/2026 12:23	
001	S1	0.245	0.451	0.0	27/02/2026 12:24	
002	S2	0.369	0.439	2.6	27/02/2026 12:30	2
003	S3	0.357	0.446	1.0	27/02/2026 12:30	1+
004	S4	0.400	0.441	2.1	27/02/2026 12:30	2+

Print time: 2025/09/16 15:15

Memo:

No.	Cl	Init.ABS	dA/min	Inhibit
003	S2	1.317	0.476	9.9
		sec	ABS	dA
10.0		1.396		
20.0		1.477	0.081	
30.0		1.560	0.082	
40.0		1.638	0.079	
50.0		1.710	0.071	
60.0		1.796	0.086	












Company:
Operator:

- **AI-Powered Analysis:** Supports data storage and export with integrated AI analysis to enhance third-party credibility.
- **High Efficiency:** Capable of testing 1-5 samples simultaneously when used with the reagent kit, significantly reducing testing time.

Rapid Test Report for Pesticide Residues in Vegetables and Fruits						
Inspection Company:		Sicheng Biotechnology Co., Ltd.		Report No.:		Scbc_20260227.01
Inspector:		Jessica		Receipt Date:		20260226
Applicant:		Xitun Fruit and Vegetable Market		Test Date:		20260227
Number of Samples:		2		Report Date:		20260227
Test results are as follows:						
Control Group Value:		0.451		dA/min		
No.	Test Item	Sample Source / Applicant	Pesticide Test Result (Inhibition Rate %)		Result Judgment (Automatic Interpretation)	Remarks
			Carbamates	Organophosphates		
1	Cabbage	Xitun Fruit and Vegetable Market	1.4	1.0	Pass	
2	Sweet Potato Leaves	Xitun Fruit and Vegetable Market	2.6	2.1	Pass	
3						
4						
5						
6						
7						
8						
9						
10						
Remarks:						
1. This sample was independently sampled and submitted by the applicant; therefore, this unit only tested the sample based on its state at the time of submission. The obtained test results are for reference only and shall not be used as proof of the status of the entire batch of products.						

Raw data :						
1				2		
Measure time:2026/02/27 12:30						
Memo: 1						
No.	CL	Init.	ABS	dA/min	Inhibit	
000	S1	0.245	0.451	0.0	0.0	
sec						
ABS						
dA						
0.0		0.388				
10.0		0.360	0.073			
20.0		0.538	0.078			
30.0		0.611	0.073			
40.0		0.684	0.073			
50.0		0.759	0.075			
60.0		0.831	0.072			
001	S1	0.388	0.444	1.4		
Measure time:2026/02/27 12:30						
Memo: 2						
No.	CL	Init.	ABS	dA/min	Inhibit	
000	S1	0.245	0.451	0.0	0.0	
sec						
ABS						
dA						
0.0		0.369				
10.0		0.446	0.077			
20.0		0.513	0.067			
30.0		0.588	0.074			
40.0		0.666	0.078			
50.0		0.736	0.070			
60.0		0.806	0.070			
001	S2	0.369	0.439	2.6		
Measure time:2026/02/27 12:30						
Memo: 1+						
No.	CL	Init.	ABS	dA/min	Inhibit	
000	S1	0.245	0.451	0.0	0.0	
sec						
ABS						
dA						
0.0		0.357				
10.0		0.435	0.078			
20.0		0.510	0.076			
30.0		0.582	0.072			
40.0		0.657	0.075			
50.0		0.732	0.075			
60.0		0.806	0.074			
001	S3	0.357	0.446	1.0		
Measure time:2026/02/27 12:30						
Memo: 2+						
No.	CL	Init.	ABS	dA/min	Inhibit	
000	S1	0.245	0.451	0.0	0.0	
sec						
ABS						
dA						
0.0		0.400				
10.0		0.476	0.076			
20.0		0.552	0.076			
30.0		0.629	0.078			
40.0		0.701	0.071			
50.0		0.772	0.072			
60.0		0.845	0.072			
001	S4	0.400	0.441	2.1		
Measure time:2026/02/27 12:30						
Memo: 3						
Measure time:2026/02/27 12:30						
Memo: 4						

Technical Specifications

Item	Specification
 Model	iRBPR-600
 Measurement Range	0 ~ 100%T, 0 ~ 4.000Abs
 Wavelength (RBPR Insecticide Detection)	412nm
 Wavelength (RBPR Fungicide Detection)	540nm
 Display	7-inch Color Touch Screen
 Data Storage	Stores up to 10,000 data records
 Software Features	Android Tablet, Animated Guide, Voice Prompts
 Communication Interface	USB, WIFI, AI Interpretation
 Printer	Built-in Thermal Printer
 Power Supply	100-240VAC 50-60Hz
 Dimensions and Weight	278mm L x 222mm W x 175mm H / 2.3 Kg