

Fully Automatic Food Safety Detector **ATFD100**

Features

- 44 samples can be tested at one time;
- Automatically add reagents;
- Light source: 410nm, 460nm, 520nm, 550nm, 590nm, 630nm;
- Absorbance range: 0.000-3.000 or more
- Repeatability: $\pm 1\%$ (A)
- Absorbance stability: Photoelectric drift (A) ± 0.002 (3 minutes)
- Absorbance accuracy: $\pm 1.0\%$.
- Linearity error: $\pm 1.0\%$.
- Built-in embedded micro thermal printer.
- It adopts 10-inch TFT touch screen and supports handwriting input.
- Android 4.4.2 operating system;
- Sound and light alarm prompt;

Application

- Pesticide residues;
- Fertilizer quality;
- Fruit and vegetable safety;
- Milk safety;
- Tea safety;
- water quality testing;
- Nitrite detection;
- Potassium sorbate detection;
- Borax detection;
- Pigment testing;

Description

The ATFD100 fully automatic food safety rapid detector is a specially designed fully automated testing instrument to increase testing throughput, reduce the workload of testing personnel, and protect the health of testing personnel. The system uses a high-precision sampling pump, anti-corrosion sampling needle, A fully automatic food safety rapid detector developed using anti-corrosion fluid pipes and combined with the latest fluid control technology.

ATFD100 can detect up to 44 samples at a time. All measurement processes, including reagent addition, temperature rise, sample switching, etc., are all programmed and completed automatically. After the measurement is completed, a buzzer alarm will sound.

ATFD100 uses an ultra-long-life solid-state light source with a trouble-free working time of up to 10,000 hours. It has the characteristics of high reliability, ultra-high speed, low cost, and high cost performance, and can be adapted to online testing.

ATFD100 uses a specially customized highly integrated solid-state light source that integrates 410nm, 460nm, 520nm, 550nm, 590nm, and 630nm in a very small space, which can meet various measurements of pesticide residues, pigments, fertilizers, fruits and vegetables, milk, tea, etc.

ATFD100 uses a customized version of the high-security Android operating system, has USB and serial communication interfaces, and can be equipped with an optional 4G communication module, which can directly report the measurement results to the supervisor;



Parameter

ATFD100	
Number of sample channels	44
Reagent type	3 types
Reagent addition speed	3mL/min
Reagent addition accuracy	5 μ L
Measurement light source	410nm, 460nm, 520nm 550nm, 590nm, 630nm
Light source life	20,000 hours
sensor	High performance PD
Absorbance value range	0.000—3.000
Repeatability	$\pm 1\%$ (A)
Absorbance stability	Photoelectric drift (A) ± 0.002 (3 minutes)
Absorbance Accuracy	$\pm 1.0\%$.
linear error	$\pm 1.0\%$.
Temperature control range	40°C
Temperature control accuracy	$\pm 1^\circ\text{C}$
power supply	110V, 220V mains power
Working current	0.5A
Alarm mode	Sound and light alarm
Data output method	USB, RS232, 4G communication module (optional)