

FSD - 3180

Multi-Function Food Safety Rapid Detector



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► **PRODUCT INTRODUCTION**

Food safety detector product use:

The multifunctional food safety detector is an integrated food safety rapid detection and analysis equipment, which is widely used in the food and drug supervision bureau, the health department, higher education institutions, scientific research institutes, agricultural departments, farms, slaughterhouses, deep processing enterprises of food meat products. , inspection and quarantine departments and other units use.

►► **APPLICATION RANGE**

Multi-functional food safety detector can quickly detect more than 200 items of non-edible chemicals, abuse of food additives, pesticide residues, veterinary drug residues, heavy metals, antibiotic residues, hormone residues, toxin residues, chemical residues, etc. Quantitative testing.

Such as formaldehyde, sulfur dioxide, hanging white block, hydrogen peroxide, nitrite, protein, honey fructose and glucose, sucrose in honey, peroxide value, acid value, fusel oil in white wine, lead, mercury arsenic, tin, cadmium , borax, potassium ferrocyanide in salt, iodine in salt, benzoyl peroxide, red pigment (carmine, amaranth), yellow pigment (lemon yellow, sunset yellow), blue pigment (bright blue), food Total acid of vinegar, total acid of soy sauce, sodium benzoate, cyclamate, magnesium sulfate in fungus, purity of sesame oil, malondialdehyde, potassium bromate, residual chlorine, sodium glutamate, volatile base nitrogen, sorbic acid, sodium saccharin , Beverage medium vitamin C, soy sauce amino acid nitrogen, meat product acid price, water cyanide, water products, histamine, honey powder enzyme, honey acidity, rhodamine B, melamine, clenbuterol, salbutamol, lake Dopamine, tetracyclines, nitrofurans, sulfonamides, sand stars, chloramphenicol, malachite green sulfonamides, porcine blue ear virus, swine fever virus, aflatoxin B1, pseudorabies virus, pseudorabies virus gE protein, pig FMD 3ABC protein, FMD virus IgG, porcine parvovirus, chicken bird flu rapid test.

►► **PRODUCT PERFORMANCE**

- 1, Android smart operating system, using more efficient and user-friendly operation, the instrument has network cable connection, wifi network upload, GPRS wireless remote transmission function, fast upload data.
- 2, high degree of intelligence, the instrument has a self-test function: with power-on self-test and zero adjustment function, with automatic detection of repeatability.
- 3, a new generation of high-speed thermal printer, the detection report can automatically print the test report and QR code.
4. The instrument has a supervision platform, the data can be uploaded by LAN and Internet data, and the test results are directly transmitted to the food safety supervision platform. Conduct regional food safety supervision and big data analysis processing and data statistics, detect regional food safety long-term and short-term dynamics, and achieve food safety problem prediction and early warning
- 5, integrated host, including food safety testing module, multi-channel pesticide residue detection module, colloidal gold immunochromatography detection module.
- 6, integrated portable rapid inspection equipment, to meet the needs of on-site and flow detection, can detect all test items under the same software, and can visually display the test results through the same window.
- 7, Colloidal gold module detection mode: Orbital automatic transmission scanning, automatically exiting the detection card after the detection is completed.
- 8, CT line automatic identification, no manual adjustment.
- 9, the instrument has a variety of sample menu library, flexible selection of test samples, different test channels can simultaneously detect different sample items.
- 10, sample processing is simple and labor-saving, the overall operation is fast, safe and convenient.
11. The instrument has its own protection function, which can set the user name and password to prevent non-workers from operating.
- 12, high sensitivity, high detection accuracy, high repeatability, scanning high precision optical sensor.
- 13, built-in powerful database, you can directly select the sample name, test indicators, inspection unit and other information on the instrument, you can also directly edit the input sample name, test indicators, inspection unit and other information on the instrument and save it into the sample database.

- 14, The instrument has the functions of recalibration, locking, and factory reset.
- 15, support U disk storage. The result determination line can be modified, the calibration value of the comparison value can be saved, and the data is not lost when the power is turned off.
- 16, Compatible with all the colloidal gold cards on the market, the use of consumables is not limited, greatly enhancing the user experience.

►► THE MAIN PARAMETERS

- 1, The main control chip adopts ARM Cortex-A7, RK3288/4 core processor, the main frequency is 1.88Ghz, the running speed is faster and the stability is stronger.
- 2, display mode: 7-inch LCD touch screen display, readings are intuitive and simple.
- 3, AC and DC, DC 12V power supply, can be connected to the car power supply, can be equipped with 6ah large capacity rechargeable lithium battery, convenient outdoor flow test.
- 4, Four-wavelength cold light source, each channel is equipped with 410, 520, 590, 630nm wavelength light source. It is equipped with advanced optical path switching device. The patented optical path switching function can realize up to 64 wavelengths, and all detection items can realize simultaneous detection of all channels.
- 5, the light source brightness automatic adjustment and calibration
- 6, intelligent constant current regulator, light intensity automatic calibration, long-term continuous working light source without temperature drift phenomenon.
- 7. Built-in new national limit standard, compare the results with the test results, and continuously update the standard.
- 8, continuous injection of samples, continuous testing
- 9. The sample number is automatically accumulated.
- 10. The test items can be expanded.
- 11, the test results can be batch printed, batch upload.
- 12. The test result is an Excel spreadsheet, which can be copied by connecting to a computer.
- 13, the test results storage capacity of 200,000
- 14, standard USB interface, free drive installation.
- 15, the firmware can be upgraded

►► TECHNICAL PARAMETERS

1. Pesticide residue: Lower limit of detection: inhibition rate 5%, detection range: inhibition rate (0 to 100)%
- 2, formaldehyde: lower limit of detection: 1mg / kg, detection range: (0 ~ 100) mg / kg
3. Nitrite: lower limit of detection: 1mg/kg, detection range: (0~100) mg/kg
4. Sulfur dioxide: lower limit of detection: 1mg/kg; 5mg/kg, detection range: (0 ~ 100) mg/kg; (0~500) mg/kg
5. Sodium formaldehyde sulfoxylate: lower limit of detection: 5 mg/kg, detection range: (0 to 500) mg/kg
- 6, protein quality: detection limit: 0.5%, detection range: (0 ~ 50)%
7. Borax: Lower limit of detection: 5 mg/kg, detection range: (0~100) mg/kg
8. Hydrogen peroxide: lower limit of detection: 5 mg/kg; 10 mg/kg; 100 mg/kg, detection range: (0-500) mg/kg; (0-1000) mg/kg; (0-10000) mg /kg
9. Nitrate: lower limit of detection: 10 mg/kg; 40 mg/kg, detection range: (0-1000) mg/kg; (0-4000) mg/kg
10. Heavy metal lead: lower limit of detection: 0.5 mg/kg; 0.2 mg/L, detection range: (0-50) mg/kg; (0-20) mg/L

►► OPTIONAL REAGENTS AND TIMES

1	Sulfur dioxide	100 times / set	26	Pigment Amaranth red	100 times / set
2	formaldehyde	100 times / set	27	Pigment Indigo	100 times / set
3	Sodium formaldehyde sulfoxylate	100 times / set	28	Pigment Bright blue	100 times / set
4	Nitrate	100 times / set	29	Pigment Carmine	100 times / set
5	Nitrite	100 times / set	30	Pigment Sunset yellow	100 times / set

6	protein	100 times / set	31	Pigment Lemon yellow	100 times / set
7	Tea polyphenol	100 times / set	32	Borax	100 times / set
8	Sesame oil	100 times / set	33	Benzoyl peroxide	100 times / set
9	Iodine content in salt	100 times / set	34	Vinegar total acid	100 times / set
10	Urea	100 times / set	35	Honey cane sugar	100 times / set
11	Hydrogen peroxide	100 times / set	36	Honey fructose	100 times / set
12	Methanol	100 times / set	37	glucose	100 times / set
13	Saccharin sodium	100 times / set	38	Acid price	100 times / set
14	Edible oil peroxide value	100 times / set	39	Sorbic acid	100 times / set
15	Sodium glutamate (monosodium glutamate)	100 times / set	40	Total residual chlorine	100 times / set
16	Sudan Red I	100 times / set	41	Sodium sulfide	100 times / set
17	Sudan Red II	100 times / set	42	Sodium cyclamate	100 times / set
18	Sudan Red III	100 times / set	43	Ansai Honey	100 times / set
19	Sudan Red IV	100 times / set	44	Potassium bromate	100 times / set
20	Free residual chlorine	100 times / set	45	Potassium aluminum sulfate	100 times / set
21	Amino acid nitrogen (soy sauce)	100 times / set	46	benzoic acid	100 times / set
22	Heavy metal lead	100 times / set	47	Sodium thiocyanate	100 times / set
23	Hexavalent chromium	100 times / set	48	histamine	100 times / set
24	arsenic	100 times / set	49	Volatile base nitrogen	100 times / set
25	mercury	100 times / set	50	Sick meat	100 times / set
			51	Pesticide residue	100 times / set

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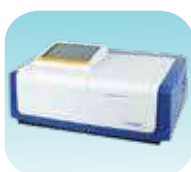
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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