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# SHANGHAI YUKE INDUSTRY CO. ,LTD

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# CATALOG

## Brand positioning:

Analytical instrument manufacturer, laboratory solution provider!

## Company introduction:

Shanghai Yuke Industry Co., Ltd. was established in 1999. It is a leading manufacturer of analytical instruments and laboratory equipment in China, and is known as a high-quality instrument manufacturer and perfect service provider. Committed to the research and innovation of scientific instruments and analytical methods in the food and pharmaceutical industries, in order to promote green food and health drugs, develop and produce analytical measuring instruments, and provide technical workers with application methods and comprehensive solutions.

Yuke Industry professional R&D laboratory instruments include: Melting point meter, Polarimeter, Refractometer, Density meter, Turbidity meter, Dropping point & Softening point tester, Micro heating table, Potentiometric Titration, Moisture meter, Thermal Analyzer (DSC/TGA/STA), Microwave Digestion instrument, Dissolution system, Osmometer, Viscosity meter, Hardness tester, Flash point tester. They are widely used in pharmaceutical and food quality control, education and research, environmental science, chemical engineering and other fields.

Yuke Industry has established strict working standards and technical standards in R&D, parts procurement, standardized manufacturing, and production inspection. Jiahang has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality. Jiahang headquarters was established in Shanghai, China, with 15 sales branches in China, sales agents in more than 10 overseas countries, and 2 production plants. At the same time, we have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

At present, Yuke's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

Yuke is committed to providing customers with a better user experience and hopes to become a world-class scientific instrument manufacturer and laboratory solution provider!

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# 01 Melting point apparatus



## Brief Introduction

Melting point meter is an instrument for measuring the melting point of a substance. The melting point of a substance refers to the temperature at which the substance changes from solid to liquid. In the field of organic chemistry, the determination of the melting point is the basic means to identify the nature of a substance, and also one of the important methods for the determination of purity.

Shanghai Yuke automatic melting point instrument series perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample melting, automatic detection real-time Tupu display, convenient for users to accurately measure the sample melting point and melt distance.

## Fields of use

1. Melting point meter plays an important role in chemical industry and medical research. It is a necessary instrument for the production of drugs, spices, dyes and other organic crystal substances. Corresponding enterprises (pharmaceutical related enterprises, chemical enterprises)
2. Universities and Research Institutes (chemical and pharmaceutical related schools and research institutes)
3. Government supervision departments (Entry-Exit Inspection and Quarantine Food and Drug Administration, Grain Administration, etc.)

## The main features

1. HD recording function, easy to observe and look back.
2. Large temperature range from room temperature to 420°C.
3. The heating rate is adjustable from 0.1°C/Min to 20°C/Min without pole.
4. Enlarge HD color screen window.
5. Four samples can be determined simultaneously.
6. Printer can be connected to realize real-time data printing and historical data printing.
7. Comply with Pharmacopoeia test methods, including European Pharmacopoeia, United States Pharmacopoeia and Chinese Pharmacopoeia.
8. Compliance with 21CFR Part 1, audit trail, pharmacopoeia and electronic signature.

## Technical parameters

Model	Smart-M30	Smart-M50	Smart-M70	Smart-M80	Smart-M90	Smart-M130
Temperature range	RT -360°C	RT -420°C	RT -360°C	RT -400°C	RT -420°C	RT -420°C
Detection method	Semi-automatic	Semi-automatic	Automatic with manual	Automatic with manual	Automatic with manual	Automatic with manual
Processing capacity	4 pcs per batch					
Test mode	Melting point	Melting point	Melting point	Melting point	Melting point	Melting / boiling / cloud / slip point
Temperature resolution	0.01°C					
Heating rate	0.1°C~20°C (200 gears, steplessly adjustable)					
Temperature control mode	PID precise temperature control, fully enclosed design of the furnace body					
Accuracy	±0.3°C	±0.2°C	±0.3°C	±0.2°C	±0.2°C	±0.2°C
	(<250°C)	(<250°C)	(<250°C)	(<250°C)	(<250°C)	(<250°C)
	±0.5°C	±0.4°C	±0.5°C	±0.4°C	±0.4°C	±0.4°C
	(>250°C)	(>250°C)	(>250°C)	(>250°C)	(>250°C)	(>250°C)
Repeatability	Melting point repeatability was ±0.1°Cat 0.1°C/Min					
Magnification	9 times					
Display method	10.4 inch FTF color touch color screen					
Data storage	32G	64G	32G	64G	128G	128G
Graph save	200 units	400 units	200 units	400 units	600 units	600 units
Map	--	--	Any zoom	Any zoom	Any zoom	Any zoom
User management	YES / Level 4 authority					
Audit trails	YES					
21 CFR part 11	YES					
Custom method libraries	YES					
Export file verification	YES					
MD5	WIFI , serial port					
Printing	PDF & EXCEL					
Export format	USB ,RS232, SD,Wi-Fi、RJ45、 U disk					
Data interface	OD: Φ 1.3mm ID: Φ 1.1mm					
Large capillary size	--	--	--	--	--	OD: Φ 4.2mm ID: Φ 3.8mm
Packing Size	430*320*370mm					
Power supply	110-230V,50/60Hz,120W					
Gross Weight	6.5kg					

# Micro Melting point apparatus



## Features :

- + Colorful Touch Screen Display.
- + Increase Temperature can easy setting from 0.1 to 10 /min.
- + One time can test 3 samples. Temperature can reach to 4001 .
- + High resolution microscope lenses can observe sample clearly.
- + Built-in cooling fan can easy come down temperature and test next samples.
- + PID control temperature, fully closed design of furnace body to avoid any empyrosis for the user.

Model	YKX-4 Plus	YKX-4
Temperature Range	Room Temperature to 400°C	Room Temperature to 350°C
Cooling Function	Built-incooling fan	NO
Resolution	0.1°C	
Temperature Increase Speed	0.1°C-10°C (100temperature point infinitely adjustable)	
Temperature Control Method	PID control temperature, fully closed design of furnace body	
Accuracy	± 0.4°C (<250°C) , ± 0.7°C (>250°C)	
Repeatability	When0.1°C/Min, repeatability ± 0.3°C	
Display	FTF High Solution Color Touch Screen	
Output	RS232 interface	
Sample Tube	external diameter φ 1.6mm,internal diameter : φ 1.2mm	
Voltage	100V-240V 50HZ-60HZ	
Power	100W	
Size	250mm*250mm*150mm	
Weight	1.2kg	



## Features :

- + Process 3 samples at a time;
- + The video clearly sees the melting process of the sample;
- + The heating rate (0.1-10) °C/min can be set arbitrarily;
- + Capillary tube or glass slide load the sample.
- + The fan automatically cools down (YKX-5 Plus )

Model	YKX-5 Plus	YKX-5
Temperature Range	Room Temperature to 400°C	Room Temperature to 350°C
Cooling Function	Built-incooling fan	No
PC Software	Include PC software	
Magnification	support digital 10-200 times magnification	
Resolution	0.1°C	
Temperature Increase Speed	0.1°C-10°C (100temperature point infinitely adjustable)	
Temperature Control Method	PID control temperature, fully closed design of furnace body	
Accuracy	± 0.4°C (<250°C) , ± 0.7°C (>250°C)	
Repeatability	When0.1°C/Min, repeatability ± 0.3°C	
Display	FTF High Solution Color Touch Screen	
Output	RS232 interface	
Sample Tube	external diameter φ 1.6mm,internal diameter : φ 1.2mm	
Voltage	100V-240V 50HZ-60HZ	
Power	100W	
Size	250mm*250mm*150mm	
Weight	2.3kg	

# 02 Automatic Polarimeter



## Brief Introduction

Shanghai Yuke Smart-P series polarimeter is an instrument for measuring the rotation of substances. The concentration, content and purity of the substance can be determined by spectrophotometry. Shanghai Yuke Automatic Polarimeter has built-in Peltier precise temperature control system, which can meet users' requirements for testing at constant temperature. The built-in automatic calibration program is optional, and the standard automatic calibration tool can be automatically calibrated from -45 degrees to +45 degrees, which fully meets the user's demand for controllable measurement accuracy in daily operation. The multi-level authority management of Shanghai Yuke automatic polarimeter can meet the audit tracking.

## Fields of use

1. Automatic polarimeter is widely used in medicine, food, organic chemical industry and other fields.
2. Agriculture: analysis of ingredients such as agricultural antibiotics, agricultural hormones, microbial pesticides and starch content of agricultural products.
3. Medicine: analysis of antibiotics, vitamins, glucose and other drugs, pharmacological study of Chinese herbal medicine.
4. Food: sugar, monosodium glutamate, soy sauce and other production process control and finished product inspection, food sugar content determination.
5. Petroleum: analysis of mineral oil, monitoring of petroleum fermentation process.
6. Fragrance: analysis of essential oils.
7. Health services: analysis of clinical diabetes in hospitals

## The main features

1. Built-in Peltier temperature control, improve accuracy and stability;
2. There are rotation/specific curl/concentration/sugar degree and custom mode;
3. LED cold light source instead of the traditional sodium light lamp and halogen tungsten lamp;
4. Compliance with 21CFR Part 11 audit trail, pharmacopoeia and electronic signature;
5. Support network printing, support data statistical retrieval;
6. Multi-level authority management, authority can be freely configured;
7. 10 inch touch color screen, user-friendly operation interface;
8. The system comes with automatic calibration system.
9. Comply with GLP GMP certification

## Technical parameters

Model	Smart-P610	Smart-P630	Smart-P910	Smart-P930
Measurement mode	Rotation, specific curl, concentration, sugar content and custom formula			
Light source	LED cold light source + high precision interference filter			
Working wavelength	589.3nm			
Test function	Single, multiple and continuous measurement			
Measuring range	Optical rotation $\pm 90^\circ$ Sugar $\pm 259^\circ$ for Z			
Minimum reading	0.001°	0.001° (0.0001° Optional)	0.001° (0.0001° Optional)	0.0001°
Accuracy	$\pm 0.004^\circ$	$\pm 0.002^\circ$	$\pm 0.002^\circ$	$\pm 0.002^\circ$
Repeatability	(Standard deviation s) 0.002° (Optical rotation)			(Standard deviation s) 0.001° (Optical rotation)
Peltier Temperature control range	10°C-50°C	10°C-60°C	10°C-60°C	10°C-60°C
Temperature resolution	0.1°C	0.01°C	0.01°C	0.01°C
Temperature control accuracy	$\pm 0.1^\circ\text{C}$	$\pm 0.03^\circ\text{C}$	$\pm 0.03^\circ\text{C}$	$\pm 0.03^\circ\text{C}$
Display method	8-inch TFT color touch screen		10.4-inch TFT color touch screen	
Standard test tube	200mm,100mm ordinary type,100mm temperature control type (optional Hastelloy alloy temperature control tube of various lengths)			
Transmittance	0.10%	0.01%	0.01%	0.01%
Data storage	32G	64G	64G	128G
Automatic calibration	YES	YES (standard with a standard pipe)	YES (standard with 2pcs standard pipe)	YES (standard with 6pcs standard pipe)
21 CFR PART 11	YES			
Audit trail	YES			
Electronic signature	YES			
Multi-function search	YES			
Print	General-purpose printer, WiFi printing	General-purpose printer, WiFi printing (Standard with a HP printer)		
Method library	YES	YES	YES	YES
Cloud service	Optional	YES	YES	YES
MD5 code verification	Optional	YES	YES	YES
Custom formula	Optional	YES	YES	YES
User Management	YES / Four-level authority management			
Export in multiple file formats	PDF & Excel			
Communication Interface	USB, RS232, VGA, Ethernet			
Instrument level	0.01 level	0.01 level	0.01 level	0.01 level
Other options	Each capacity 50mm and 200mm long temperature control tube, mouse, keyboard connection, general purpose printer/wireless network printer			
Power supply	220V $\pm 22\text{V}$ , 50Hz $\pm 1\text{Hz}$ , 250W			
Weight	30kg			
Packing Size	820*475*465mm			

# 03

## Automatic Refractometer



### Brief Introduction

Smart-R is equipped with a high performance linear CCD sensor. Through high-speed and high precision signal acquisition, analysis and processing technology, the Smart-R is equipped with a semiconductor Peltier super temperature control system. It can measure the refractive index (Nd) and the mass fraction of sugar solution (Brix) of transparent, translucent, dark and viscous liquid with high accuracy and efficiency.

### Fields of use

Automatic refractometer is widely used in petroleum industry, oil industry, pharmaceutical industry, food industry, daily chemical industry, sugar industry, etc. It is also one of the commonly used equipment in schools and related scientific research units.

Food industry: quality control of raw materials, intermediates and final products; The concentration of dry matter, solids, and sugars; Purity control for products of sugar, dessert, beverage, dairy, chocolate and coffee, oil and fat industries.

Pharmaceutical industry: determination of solid content in blood and urine; Purity control.

Cosmetics industry: determination of refractive index of essential oils and spices; Determine the fatty acid content of soap and fragrance ingredients.

Chemical and petrochemical industries: determination of refractive index of raw materials and analytical reagents; Purity control; Determination of refractive index of petroleum products; Determine the concentration of the cooled lubricating oil.

### The main features

1. Built-in Peltier temperature control, improve accuracy and stability;
2. China's first double temperature control, sapphire prism;
3. LED cold light source instead of the traditional sodium light lamp and halogen tungsten lamp;
4. Compliance with 21CFR Part II audit trail, pharmacopoeia and electronic signature;
5. Support network printing, support data statistical retrieval;
6. Multi-level authority management, authority can be freely configured;
7. Touch color screen, user-friendly operation interface;
8. The whole machine has passed TART and CE certification.

### Technical parameters

Model	Smart-R200	Smart-R300	Smart-R500	Smart-R600
Range	1.30000-1.70000(nD)			
Resolution	0.0001(nD)	0.0001(nD)	0.00001(nD)	0.00001(nD)
Precision	±0.0002	±0.0002	±0.00003	±0.00002
Brix range	0-100%(Brix)			
Brix accuracy	±0.1%(Brix)	±0.1%(Brix)	±0.05%(Brix)	±0.01%(Brix)
Test mode	Refractive index / sugar content or customized	Refractive index / sugar content or customized	Refractive index / sugar content / honey moisture / salinity or customized	Refractive index / sugar content / honey moisture / salinity or customized
Temperature control method	No	Built-in Peltier	Built-in Peltier	Built-in Peltier
Temperature control range	Room temperature	5°C-65°C	5°C-65°C	5°C-90°C
Temperature control stability	Room temperature	±0.03°C	±0.02°C	±0.01°C
Light source	LED			
Wavelength	589nm			
Prism	sapphire			
Sample cell	stainless steel	stainless steel	Hastelloy	Hastelloy
Detection method	High-resolution linear CCD			
Display method	7 inch FTF color touch screen			
Data storage	32G	32G	32G	64G
Output method	USB, RS232, RJ45, SD card, U disk			
User Management	Yes/four-level authority management			
21CFR PART 11	YES			
Audit trail	YES			
Electronic signature	YES			
Custom method library	YES			
Export file to verify high-level protection MD5	YES			
WIFI printing	YES			
Export in multiple file formats	PDF & Excel			
Packing Size	440*400*340mm			
Power supply	220V / 50Hz			
Gross Weight	7.15kg			

# Portable Refractometer

## Brief Introduction

The digital display refractometer measures the refractive index nD and Brix of liquids, and can be used for detection and analysis in sugar, pharmaceutical, beverage, petroleum, food, chemical industry production, scientific research, and teaching departments. Portable design, easy to use; LED cold light source replaces traditional sodium lamp and halogen tungsten lamp; color screen display, humanized operation interface; the whole machine has passed TART and CE certification.

<p>便携式数显折射仪 YK-P0 Portable Refractometer</p> 	<p>便携式数显折射仪 YK-P1 Portable Refractometer</p> 	<p>便携式数显折射仪 YK-P2 Portable Refractometer</p> 
<p>便携式数显折射仪 YK-P3 Portable Refractometer</p> 	<p>台式数显折射仪 YK-D Portable Refractometer</p> 	<p>笔式数显折射仪 YK-PEN Handheld Refractometer</p> 

# Online Refractometer

<p>在线液体浓度传感器 YK-S-DP</p> 	<p>在线液体浓度传感器 YK-SH20-DP</p> 	<p>在线液体浓度传感器 YK-SH70</p> 
<p>在线液体浓度传感器 YK-ST</p> 	<p>在线液体浓度传感器 YK-GS</p> 	<p>浸没式液体浓度传感器 YK-PS</p> 
<p>在线液体浓度传感器 YK-SH90</p> 	<p>在线液体浓度传感器 YK-SH90</p> 	<p>探入式液体浓度传感器 YK-PR</p> 

# 04 Density meter



## Brief Introduction

The Smart-D50/D70 automatic densitometer is based on the principle of U-tube oscillation method, which perfectly combines Peltier's precise temperature control technology with high-definition video camera technology to not only provide accurate, stable and reliable test results, but also provide users with efficient and convenient test experience. High-definition video can see whether there is bubble influence in the sample, using pulse excitation, high-precision detection technology, convenient for users to accurately and quickly measure the sample density and density related parameters.

## Fields of use

1. Pharmaceutical industry: quality control of API and pharmaceutical intermediates, determine the specific gravity and density of pharmaceutical agents;
2. Flavor: food flavor, daily flavor, tobacco flavor, food additive raw material verification;
3. Petrochemical industry: crude oil API index, gasoline, diesel density detection, additive mixing ratio process monitoring;
4. Beverage industry: measurement of sugar concentration, alcohol concentration, beer quality control, soft drink quality control;
5. Food industry: grape juice, tomato juice, high fructose corn syrup, vegetable oil and soft drinks processing quality control;
6. Brewing industry: liquor, yellow rice wine, red wine, beer, fruit wine, rice wine and other alcohol concentration detection;
7. Chemical industry: chemical urea, detergent, glycol, acid and alkali and ammonia concentration test;
8. Machinery manufacturing: metal processing, machine manufacturing, automotive industry, electronic and electrical cleaning agent detection;
9. Inspection institutions: standard laboratories, statutory testing institutions, third party detection of liquid density measurement.

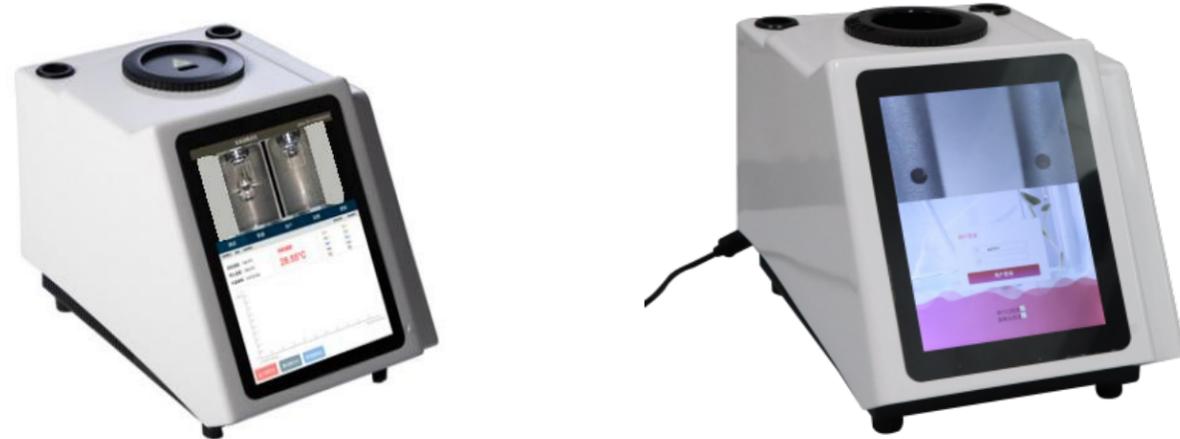
## The main features

1. Automatic integration to realize the function of one-key measurement.
2. Built-in Peltier temperature control, improve accuracy and stability.
3. Avoid bubbles in HD video.
4. Data can be printed directly through the printer.
5. Compliance with 21CFR Part 11, audit trail, pharmacopoeia and electronic signature.

## Technical parameters

Model	Smart -D50	Smart -D70	Smart -D90
Test mode	Density, alcohol concentration and custom formula		
Measuring range	0 g/cm <sup>3</sup> to 3 g/cm <sup>3</sup>		
Resolution	±0.0001 g/cm <sup>3</sup>	±0.00001 g/cm <sup>3</sup>	±0.00001 g/cm <sup>3</sup>
Repeatability	±0.0001 g/cm <sup>3</sup>	±0.00005 g/cm <sup>3</sup>	±0.00005 g/cm <sup>3</sup>
Accuracy	±0.0003 g/cm <sup>3</sup>	±0.00008 g/cm <sup>3</sup>	±0.00008 g/cm <sup>3</sup>
Injection method	Automatic (compatible with manual)		
With Video	YES		
Temperature control method	Peltier		
External heater	No	No	Yes
Temperature control range	5°C-45°C	5°C-65°C	5°C-85°C
Temperature control stability	±0.02°C		
Display method	10.4 inch FTF color touch screen		
Data storage	32G	64G	64G
Output method	USB, RS232, U disk		
User Management	Yes / four-level authority management		
Standards compliant	ASTM D1250, D1475, D2501, D4052, D4806, D5002, D5931, D6448		
21 CFR PART 11	YES		
Audit trail	YES		
Electronic signature	YES		
Custom method library	YES		
Export file to verify high-level protection MD5	YES		
WIFI printing	YES		
Export in multiple file formats	PDF & Excel		
Packin Size	425*410*250mm		
Power supply	110V -230V 50Hz / 60Hz		
Gross Weight	8.5kg		

# 05 Dropping point & Softening point Tester



## Brief Introduction

Automatic drop point and softening point tester perfectly combine high-precision temperature control technology and high-definition video camera technology, not only to provide users with accurate, stable and reliable test results, but also to bring users efficient and convenient test experience. High-definition video can easily and clearly see the whole process of sample state change, and automatically detect real-time graph display, which is convenient for users to accurately measure the sample drop point/softening point. The standard fat cup and measurement method can ensure the accuracy of the results.

## Fields of use

Automatic droplet point and softening point tester plays an important role in chemical industry and medical research. It is a necessary instrument for droplet point and softening point of asphalt, asphalt, polymers, resins, paste, wax and more materials.

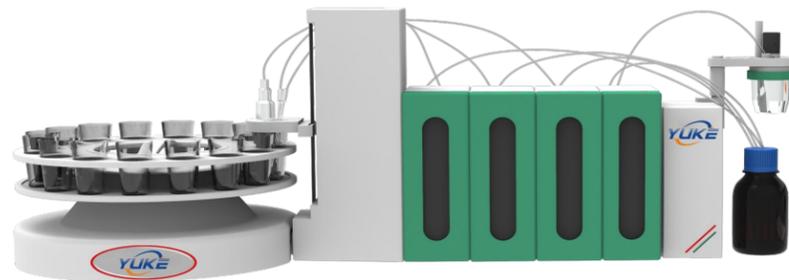
## The main features

1. HD video visual sample changes;
2. Fully automatic one-button automatic measurement;
3. Test two samples at a time;
4. Can print data directly through the printer;
5. Compliance with 21CFR Part 11, audit trail, Pharmacopoeia 2020 and electronic signature;
6. In line with national standards and international standards.

## Technical parameters

Model	YKD50	Smart - YKD50	YKD70	Smart - YKD70
Temperature range	RT to 350°C	RT to 400°C	RT to 400°C	RT to 400°C
Temperature resolution	0.1°C	0.01°C	0.1°C	0.01°C
Detection method	Manual detection	Manual detection	Automatic detection (compatible with manual detection)	Automatic detection (compatible with manual detection)
Heating rate	0.1-20 °C / Min			
Accuracy	±0.2°C (<250°C) ±0.5°C(>250°C)			
User Management	15	15	15	15
Display method	5.6 inch + 4.3 inch color display	10.4 inch color display	5.6 inch + 4.3 inch color display	10.4 inch color display
Processing capacity	2 per batch	2 per batch	2 per batch	2 per batch
Experimental program	100 set	100 set	200 set	400 set
Data interface	USB ,RS232, network port			
Comply with GLP specification	YES			
Power supply	220 V 50Hz 120W			
Standards compliant	Meet ASTM (D3204, D3461, D3104, D3954, D6090), DIN (51801, 51920), GB / T (2294-2019, 3498/8728-1988, 8728-1988) ISO (2176-1972, 4625-2) and "Pharmacopoeia" and other standards			
Data storage	--	64G	--	64G
User Management	--	YES / 4-level authority management	--	YES / 4-level authority management
21CFR Part 11, audit trail, electronic signature	--	YES	--	YES
Printing method	Serial printing	WIFI Serial printing	Serial printing	WIFI Serial printing
Export in multiple file formats	PDF & Excel			
Packing Size	430*320*370mm			
Power Supply	110-230V,50/60Hz,120W			
Gross Weight	6.5kg			

# Multi-channel automatic potentiometric titrator



## Brief Introduction

Automatic potentiometric titration device is a high-precision electrochemical analysis instrument for volumetric analysis using potentiometric titration method. It adopts modular design and consists of volumetric titration device, control device and testing device. It can carry out acid-base titration, REDOX, precipitation and complexation titration. The instrument has the functions of constant titration, micro titration, end-point setting titration, volume setting titration and mode titration. Users can also build their own special titration methods according to their actual needs.

## Fields of use

Automatic potential titrator belongs to the laboratory general basic equipment, the use is very wide, can be used in food, drug testing, disease control, commodity inspection, water treatment, petroleum, chemical, Marine, electric power, environmental protection, new energy, teaching, scientific research and other related fields.

## Application field

1. Acid-base titration, e.g., oxalic acid (aqueous/non-aqueous) content
2. Redox titration, e.g., iodine value, iron (II) content
3. Precipitation titration, e.g., chloride content
4. Complexometric titration, such as calcium content,
5. The titration was performed with a polarized electrode (Ipol, Upol)

## The main features

1. Channel liquid feeding module, can be equipped with 16/18/20 station rotary disc type automatic sampler
2. Can drive multiple feeding module units, burette and pipeline should be acid, alkali and corrosion resistant.
3. Imports corrosion resistant PTFE rotary valve, PTFE corrosion resistant burette, high power mixing platform, the use of magnetic stirring coil
4. High precision closed loop control to ensure accurate titration
5. Burette filling resolution 1uL
6. High precision burette accuracy up to 0.003mm
7. Automatically check the state of the instrument after starting the machine
8. The whole pipeline is fully sealed design, quick and convenient to replace
9. Real-time display of titration curve and measurement results, convenient operation
10. Support acid-base titration, REDOX titration, precipitation titration, complex titration, non-aqueous titration and other titration methods
11. Comply with GMP standard, and the titration results meet GLP requirements
12. Automatic sample loading, automatic pipeline cleaning, automatic measurement of experimental results, automatic recording and drawing of titration pH- titration volume real-time change curve.
13. In line with the 2020 edition of the Pharmacopoeia
14. With multi-level user rights management function, to achieve audit tracking and rights management functions

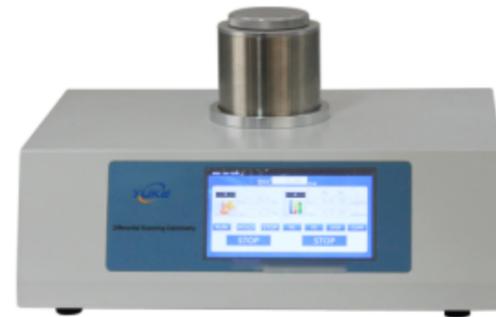
## Technical parameters

Model	YK-T6	YK-T7	YK-T8	YK-T9
<b>Measuring range</b>	-2000.0MV~+2000.0MV -20.000PH~+20.000PH	-2000.0MV~+2000.0MV -20.000PH~+20.000PH	-2000.0MV~+2000.0MV -20.000PH~+20.000PH	-2000.0MV~+2000.0MV -20.000PH~+20.000PH
<b>Resolution</b>	0.1MV 0.001PH	0.1MV 0.001PH	0.1MV 0.001PH	0.1MV 0.001PH
<b>Precision</b>	0.1MV 0.005PH	0.1MV 0.003PH	0.1MV 0.002PH	0.1MV 0.002PH
<b>Measurement mode</b>	MEAS: measure pH /mV/ T CAL: pH calibration (multi-point) SET: Set the end point mode MET: equivalent titration DET: Dynamic Titration			
<b>Titration mode</b>	Acid-base titration/ Redox titration/ Precipitation titration/ Complexometric titration/ Non-aqueous	Acid-base titration/ Redox titration/ Precipitation titration/ Complexometric titration/ Non-aqueous	Acid-base titration/ Redox titration/ Precipitation titration/ Complexometric titration/ Non-aqueous	Acid-base titration/ Redox titration/ Precipitation titration/ Complexometric titration/ Non-aqueous
<b>Titration cup capacity</b>	250ml	250ml	250ml	250ml
<b>Temperature measurement range</b>	0-100°C	-5-120°C	-5-120°C	-5-120°C
<b>Temperature measurement accuracy</b>	±0.1°C	±0.1°C	±0.1°C	±0.1°C
<b>communication method</b>	1*USB, 232 serial port, Ethernet	1*USB, 232 serial port, Ethernet	1*USB, 232 serial port, Ethernet	1*USB, 232 serial port, Ethernet
<b>Dosing unit</b>	Built-in dosing unit	Built-in dosing unit	Built-in dosing unit	Built-in dosing unit
<b>Dosing module unit</b>	1 set of built-in titration dosing channel	2 set of built-in titration dosing channel	2 set of built-in titration dosing channel	4 set of built-in titration dosing channel
<b>Expandable number of dosing channels</b>	8	8	8	8
<b>Burette specifications</b>	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )
<b>Burette resolution</b>	1/48,000	1/48,000	1/48,000	1/48,000
<b>Burette refill time</b>	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )	1ml 5ml 10ml 25ml 50ml (10ml Standard )
<b>Control unit</b>	PC with software (additional to the computer)	PC with software (additional to the computer)	PC with software (additional to the computer)	PC with software (additional to the computer)
<b>Autosampler</b>	Can be used in conjunction with the GT robot sampling system for the analysis of large quantities of samples	Can be used in conjunction with the GT robot sampling system for the analysis of large quantities of samples	Can be used in conjunction with the GT robot sampling system for the analysis of large quantities of samples	Can be used in conjunction with the GT robot sampling system for the analysis of large quantities of samples
<b>Self-check function</b>	Automatically check the status of the instrument after starting	Automatically check the status of the instrument after starting	Automatically check the status of the instrument after starting	Automatically check the status of the instrument after starting
<b>Calibration function</b>	YES	YES	YES	YES
<b>Application editing function</b>	YES	YES	YES	YES
<b>Storage</b>	More than 300G	More than 300G	More than 300G	More than 300G
<b>Default method</b>	More than 300G	More than 300G	More than 300G	More than 300G
<b>Comply with FDA, GMP, GLP</b>	Audit trail, hierarchical management, electronic signature	Audit trail, hierarchical management, electronic signature	Audit trail, hierarchical management, electronic signature	Audit trail, hierarchical management, electronic signature
<b>Pipeline</b>	PTFE titration line (corrosion resistant)	PTFE titration line (corrosion resistant)	PTFE titration line (corrosion resistant)	PTFE titration line (corrosion resistant)
<b>Stirring method</b>	Overhead spiral stirrer or magnetic stirring	Overhead spiral stirrer or magnetic stirring	Overhead spiral stirrer or magnetic stirring	Overhead spiral stirrer or magnetic stirring
<b>PTFE valve</b>	Imported anti-corrosion rotary valve	Imported anti-corrosion rotary valve	Imported anti-corrosion rotary valve	Imported anti-corrosion rotary valve
<b>Micro detection electrode</b>	Imported	Imported	Imported	Imported
<b>Micro syringe pump</b>	Imported	Imported	Imported	Imported

# 07 Differential scanning calorimeter

## Brief Introduction

DSC measures the relationship between temperature and heat flow related to the internal heat transition of materials. It has a wide range of applications, especially in the research and development, performance testing and quality control of materials. Such as material melting, glass transition temperature, crystallization and cold crystallization, phase transition, thermal stability, curing/crosslinking, oxidation rust lead period and so on. Jiahang DSC in line with the national standard GB/T15065-2009, GB/T2951.42-2008, GB/T17391-1998, GB/T19466.6-2009 standard.



## Fields of use

It has a wide range of applications, especially in the research and development, performance testing and quality control of materials.

## The main features

- 1: Closed furnace structure, to ensure heating stability;
- 2: 100 for thermocouple, greatly improve temperature sensitivity and resolution;
- 3: New furnace structure, better resolution and resolution and better baseline stability;
- 4: Dual temperature probe to ensure high repeatability of sample temperature measurement;
- 5: The software ADAPTS to all brands of computers, supporting WinXP, Win7, Win8, Win10 and other operating systems;
- 6: Humanized operation interface, 8 inch LCD touch screen display, friendly interface, easy to operate.

## Technical parameters

Model	YK-DSC6	YK-DSC8
Temperature range	Room temperature -600°C	Room temperature -800°C
Temperature resolution	0.01°C	0.01°C
Temperature accuracy	0.1°C	0.1°C
Temperature accuracy	±0.03°C	±0.03°C
DSC range	±500mW	±500mW
DSC resolution	0.001mW	0.001mW
Calorimetry accuracy	0.10%	0.10%
Heating rate	0.1~100 °C / min	0.1~100 °C / min
Cooling rate	0.1~50 °C / min	0.1~50 °C / min
Maximum data collection rate	50 pcs/ s	50 pcs/ s
Temperature control method	Heating, constant temperature, cooling, cycle temperature control (full program automatic control)	
Atmosphere control	Gas mass flow meter automatically switches between two gases	
Display method	8-inch color touch screen	
Parameter standard	Equipped with standard samples, one- key automatic calibration, users can calibrate the temperature by themselves	
Data interface	USD2.0 interface, dedicated operating software	
Power supply	50Hz / 60 Hz AC220V	

## DSC / DTA / TGA / STA Specification Compared as follows

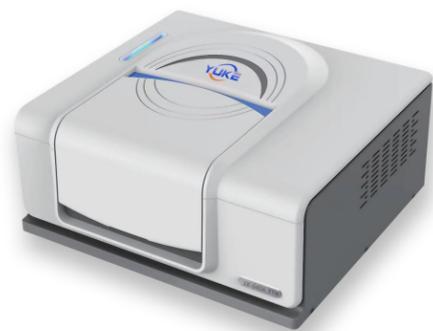
Picture	Name	Model	temperature range	Temperature control method	Application fiele	Data interface	Heating rate
	Melting point analyzer	YK-500A	RT~500°C	Program temperature control	Block samples such as plastics	USB	1~80°C/min
	Differential Scanning Calorimeter	YK-DSC-6	RT~600°C				1~80°C/min
		YK-DSC-6L	-100°C~600°C	1~80°C/min			
		YK-DSC-8	RT~800°C	Temperature and cooling scan, can be segmented heating, cooling scan	1~80°C/min		
		YK-DSC-8L	-100°C~800°C	1~80°C/min			
	Differential Thermal Analyzer	YK-DTA3320	RT~1150°C	Program temperature control	Rubber, plastic, (wire and cable, gas and water pipeline) medicine, metallurgy, polymer, new energy, etc.	USB two-way communication computer control	1~80°C/min
		YK-DTA3332	RT~1450°C				1~80°C/min
	Thermogravimetric Analyzer	YK-TGA-350	RT~1100°C	Program temperature control		USB two-way communication computer control	1~80°C/min
		YK-TGA-550	RT~1400°C				1~80°C/min
	Synchronous Thermal Analyzer	YK-STA-150	RT~1100°C	Program temperature control		USB two-way communication computer control	1~80°C/min
		YK-STA-350	RT~1400°C				1~80°C/min

# 08 Other products

## Related products



Optical Emission Spectrometer



FT-IR SPECTROMETER



Kjeldahl Nitrogen Analyzer



BET Automatic Surface Area Analyzer



CHNSO Elemental Analyzer



Digital universal tool microscope

## Food & Pharmacy



Dissolution Tester



Freezing Point Osmometer



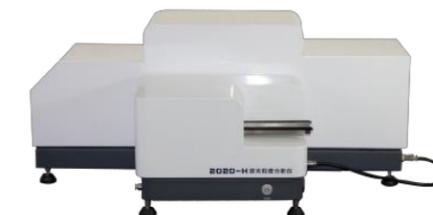
Disintegration apparatus



Cone penetration tester



Particle Analyzer



laser particle size analyzer



Friability Tester



Hardness Tester

# 08 Other products

## Related products



Gas Chromatograph



Atomic absorption spectrometer



Spectrophotometer



Flame Photometer



Ion chromatograph



Dilution standardizer

## Petroleum & Oil



Freezing Point Tester



Oil Particle Counter



X-ray Fluorescence Sulfur-in-Oil Analyzer



H2S Analyser



Closed flash point tester



Open flash point tester



Viscosity Meter



Rotational Viscometer