

Chinese HPLC Manufacturer

Add: 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong , Hangzhou, Zhejiang 310053,
P.R.China

Web: www.surwit.com/en www.hplc.com.cn

Email: sales@hplc.com.cn

Phone:0086-15158125638



Surwit

Science technology (hangzhou) INC.

ABOUT SURWIT

Surwit Technology Inc. is located in Hangzhou of China and specialized in various chromatographic analysis instruments, spectrometers and relevant data system.

Surwit Technology was originated from Zhejiang University intelligent information engineering institute.

Surwit integrate the research, development, product, sales and technical services as a whole.

The main product N2000 chromatogram data system occupies the biggest market share each year, nearly more than 8000 sets yearly, Customers have been reached to 100,000 till 2010.

Main products:

Zhejiang University N2000 chromatography data system
 Clarify chromatography data system
 SURVEY chromatography data system
 STI501 HPLC system, prep HPLC system
 LC-10 Tvp liquid chromatography, prep HPLC system
 Autosampler
 Manual injector
 HPLC Consumables



Manufacturer:

Science Technology(Hangzhou) INC.
 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
sales@hplc.com.cn
www.surwit.com



Train:Shanghai to Hangzhou

Subway No.1:East Railway Station to Xixing

Bus 326/177 : Puyan Chakou

ADD: 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
Hangzhou, Zhejiang 310053, P.R.China



+8615158125638



Tennysun68

Manufacturer:

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1998-2006

N2000 CDS came out in Analysis Institute of Zhejiang University. Sales of CDS increased to 5000 sets, which the first in China. Import American technology, began to research of Model 500. Surwit Technology Inc. set up in Hangzhou, launched the STI501 HPLC System.

2007-2012

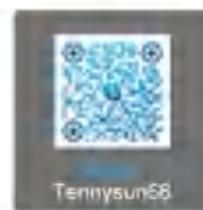
Launched VI2010, first countercharge CDS in China, accord with GMP Certification. Open the oversea market. LC-10T HPLC system came to market. LC-10T plus and STI 501 plus updated. Earned the Exclusive agent of micro instruments pressure sensors in China.

2013-2018

Autosampler launched to market. Oversea market expanded to America, Italy, Japan, Brazil, Argentina, South Africa, India, Hungary and other countries. QP-10Tvp Quaternion low pressure system liquid chromatograph, SGPCS- gel chromatography purification system, N2000+ chromatography data system were launched. Gc2010 Gas chromatography system launched.

2019-2024

Various specialized configuration models were launched to targeted specific markets such as pharmaceuticals, chemicals, food, feed, and import and export inspection; Launch multidimensional chromatography models to expand the application range of chromatography; Expanding the application of post column derivative systems. The company's headquarters and factory area have been relocated, and offices have been established successively in Jinan, Chengdu, Dongguan, Zhengzhou, and other areas. LC-8000 system were launched to supply all hplc requirements of customers.



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LC8000 System

Overview:

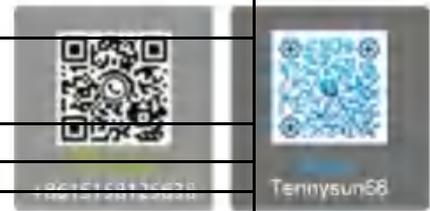
LC8000 system could be chosen by isocratic, binary, quaternary system with autosampler, customers can choose different kinds of detector to finish the analysis. We provide OEM, excellent performance, flexible configuration and professional service for the instruments to customers all over the world.



NO.	Configuration Name
1	Binary Auto UV
2	Binary Auto UV+Clarity
3	Binary Auto DAD
4	Binary Auto DAD+clarity
5	Quaternary Auto UV

Delivery Pump	LC8210 Isocratic pump	LC8220 Binary pump	LC8245 Quaternary pump
Online Degassing	None	None	4-channel (480 µL/channel)
Flow Rate Range	0.001 mL/min-10.000 mL/min (increment 0.001 mL/min)		
Flow Rate Accuracy	±0.2%		
Flow Rate Precision	≤0.1% (JJG) ≤0.06%RSD (ASTM)		
Max Pressure	9000 psi		
Pressure Pulsation	≤1%or<10 psi		
Gradient Accuracy	None	±0.5%	
Gradient Precision		±0.1%	

Autosampler	LC8320 autosampler
Sampling Mode	Full loop,partial loop and µl pick-up
Volume of Sample Loop	standard:100 µL(optional:10 µL,20 µL,50 µL)
Max.Sampling Volume	Full loop =loop volume Partial loop =1/2 loop volume µl pick-up=(loop volume-3xneedle volume)/2
Sample Volume	2*48 1.5 mL vials (standard) (Optional:96-hole well plate,384-hole well plate)
Cross Contamination	<0.005%
Linearity	0.9999
Pressure Limit	6,000 psi(15,000psi sampling valve is optional)



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Autosampler	LC8320 autosampler
Sampling Mode	Full loop,partial loop and μ l pick-up
Volume of Sample Loop	standard:100 μ L(optional:10 μ L,20 μ L,50 μ L)
Max.Sampling Volume	Full loop =loop volume
	Partial loop =1/2 loop volume
Sample Volume	μ l pick-up=(loop volume-3 \times needle volume)/2 2*48 1.5 mL vials (standard)
	(Optional:96-hole well plate,384-hole well plate)
Cross Contamination	<0.005%
Linearity	0.9999
Pressure Limit	6,000 psi(15,000psi sampling valve is optional)



UV-VIS Detector	C8500 UV-VIS Detector
Wavelength	190-800 nm
Light Source	Deuterium lamp,Tungsten lamp
Spectral Width	8 nm
Wavelength Accuracy	± 1 nm
Wavelength Precision	0.1 nm
Noise	$\pm 0.5 \times 10^{-5}$ AU (JJG)
	$\pm 0.35 \times 10^{-5}$ AU (ASTM)
Drift	1×10^{-4} AU/Hr
Linear Range	$> 5 \times 10^4$ (JJG)
	> 2.5 AU (ASTM)
Max.Sampling Rate	100 Hz
Flowcell Pressure	1200 PSI
Flowcell Light Path	10 mm
Flowcell Volume	12 μ L
Detection Limit	4×10^{-6} g/mL(naphthalene)



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Diode Array Detector	C8520 Diode Array Detector
Diode Array	1024 pixels
Wavelength	190~640 nm
Light Source	Deuterium lamp
Spectral Resolution	0.6 nm/pixel
Spectral Width	4.8 nm
Wavelength Accuracy	±1 nm
Wavelength Precision	0.1 nm
Noise	±1.0×10 ⁻⁵ AU (JJG) ±0.6×10 ⁻⁵ AU (ASTM)
Drift	0.5×10 ⁻³ AU/Hr
linear Range	>2.0 AU (ASTM)
Max.Sampling Rate	12 channels,100 Hz;Full spectrum,100 Hz
Flowcell Pressure	1200 PS
Flowcell Light Path	10 mm
Flowcell Volume	12 μL
Detection Limit	2×10 ⁻⁸ g/mL (naphthalene)
Wavelength Calibration	Mercury peaks and built-in holmium oxide filter

Column Oven	Ic8400 Column Oven
Temperature Range	Room Temp+5C-70°C
Temperature Accuracy	±1.0 °C
Temperature Precision	±0.1 C



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(1.1) LC-10Tvp High Pressure Solvent Delivery System

Overview:

LC-10Tvp Liquid Pump was developed on the basis of STI501 Liquid Chromatography, adopted advanced technology and design of the United States.

LC-10 Tvp Liquid Pump can be connected to any sort of Liquid detector, so widely applied in the field of HPLC, laboratory chemical reaction infusion and chromatography and etc.



Specifications:

Flow Range	0.001 – 9.999 ml/min
Delivery method	Double piston (Main & Auxiliary)
Pump head	10ml SST/Peek analytical
Accuracy	± 1% or ±2μL/min, whichever is greater
	± 1% or ±1μL/min, whichever is greater (Micro)
Flow rate settings	0 - 0.10 mL/min. 0.001 inc.
	0.10 – 0.90 mL/min. 0.010 inc.
	1.0 mL/min.+ 0.10 inc.
Precision	0.1% RSD
Pmax	9999 psi
System connections	1/16'' capillaries
Dimensions	130 mm x 260 mm x 420 mm
Weight.	11 kg
Power input	85 to 264 VAC, 47 to 63 Hz, 60 Watts
Display	300mm

Features:

- Ø Improve the maximum limited pressure by precise transducer
- Ø Accord with GMP/GLP, ISO9001, 21 CFR Part II with Surwit CDS (Software)
- Ø Online Washing Device while analysis
- Ø Self-priming pump head requires no manual priming
- Ø Available with micro, analytical, semi-prep, and prep pump heads
- Ø Programmable solvent compressibility compensation
- Ø Easy maintenance and service for all wetted parts



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(1.1) SPD-10Tvp UV-VIS Spectrophotometric Detector

Overview:

Surwit SPD-10Tvp UV-VIS can be connected to any sort of liquid pump, accuracy wavelength, high sensitivity, widely linear range. This is a cost-effective and reliable, practical, economic testing unit.



Accord with GMP/GLP, ISO9001, 21 CFR Part II with Surwit Chromatography Data System (Software).

Specifications:

Wavelength	190-700 nm
Spectral bandwidth	6 nm
Wavelength Accuracy	$\leq \pm 1$ nm
Wavelength Reproducibility	$\leq \pm 0.1$ nm
Flow pool volume	8 μ L
Optical path	10 mm
Dynamic Noise	$\leq \pm 0.75 \times 10^{-5}$ AU (Methanol, 1ml/min, 254nm, 20 °C)
Static Noise	$\leq \pm 0.5 \times 10^{-5}$ AU (Empty pool, Response time 1 s, 20 °C)
Dynamic Drifting	$\leq \pm 1 \times 10^{-4}$ AU (Methanol, 1ml/min, 254nm, 20 °C)
Static Drifting	$\leq \pm 0.5 \times 10^{-4}$ AU (Empty pool, Response time 1 s, 20 °C)
Qualitative repeatability	RSD $\leq 0.1\%$
Quantitative repeatability	RSD $\leq 0.5\%$
Dimensions	130H x 260W x 420 D, (mm)
Weight.	11 kg

Features:

- Ø Unique pool structure ensures the accuracy and sensitivity of the instrument
- Ø Easy maintenance and service for all wetted parts
- Ø High-quality structure
- Ø Long life deuterium lamp
- Ø Easily replace
- Ø Advanced design



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LC-10Tvp High Pressure Solvent Delivery System

Overview:

LC-10Tvp Liquid Pump was developed on the basis of STI501 Liquid Chromatography, adopted advanced technology and design of the United States.

LC-10 Tvp Liquid Pump can be connected to any sort of Liquid detector, so widely applied in the field of HPLC, laboratory chemical reaction infusion and chromatography and etc.



Specifications:

Flow Range	0.001 – 9.999 ml/min
Delivery method	Double piston (Main & Auxiliary)
Pump head	10ml SST/Peek analytical
Accuracy	± 1% or ±2μL/min, whichever is greater
	± 1% or ±1μL/min, whichever is greater (Micro)
Flow rate settings	0 - 0.10 mL/min. 0.001 inc.
	0.10 – 0.90 mL/min. 0.010 inc.
	1.0 mL/min.+ 0.10 inc.
Precision	0.1% RSD
Pmax	9999 psi
System connections	1/16'' capillaries
Dimensions	130 mm x 260 mm x 420 mm
Weight.	11 kg
Power input	85 to 264 VAC, 47 to 63 Hz, 60 Watts
Display	300mm

Features:

- Ø Improve the maximum limited pressure by precise transducer
- Ø Accord with GMP/GLP, ISO9001, 21 CFR Part II with Surwit CDS (Software)
- Ø Online Washing Device while analysis
- Ø Self-priming pump head requires no manual priming
- Ø Available with micro, analytical, semi-prep, and prep pump heads
- Ø Programmable solvent compressibility compensation
- Ø Easy maintenance and service for all wetted parts



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Surwit SPD-10Tvp UV-VIS Spectrophotometric Detector

Overview:

Surwit SPD-10Tvp UV-VIS can be connected to any sort of liquid pump, accuracy wavelength, high sensitivity, widely linear range. This is a cost-effective and reliable, practical, economic testing unit.

Accord with GMP/GLP, ISO9001, 21 CFR Part II with Surwit Chromatography Data System (Software).



Specifications:

Wavelength	190-700 nm
Spectral bandwidth	6 nm
Wavelength Accuracy	$\leq \pm 1$ nm
Wavelength Reproducibility	$\leq \pm 0.1$ nm
Flow pool volume	8 μ L
Optical path	10 mm
Dynamic Noise	$\leq \pm 0.75 \times 10^{-5}$ AU (Methanol, 1ml/min, 254nm, 20 °C)
Static Noise	$\leq \pm 0.5 \times 10^{-5}$ AU (Empty pool, Response time 1 s, 20 °C)
Dynamic Drifting	$\leq \pm 1 \times 10^{-4}$ AU (Methanol, 1ml/min, 254nm, 20 °C)
Static Drifting	$\leq \pm 0.5 \times 10^{-4}$ AU (Empty pool, Response time 1 s, 20 °C)
Qualitative repeatability	RSD $\leq 0.1\%$
Quantitative repeatability	RSD $\leq 0.5\%$
Dimensions	130H x 260W x 420 D, (mm)
Weight.	11 kg

Features:

- Ø Unique pool structure ensures the accuracy and sensitivity of the instrument
- Ø Easy maintenance and service for all wetted parts
- Ø High-quality structure
- Ø Long life deuterium lamp
- Ø Easily replace
- Ø Advanced design



+8615158125638



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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
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Surwit LC-10Typ Prep pump



Infusion way	Series dual-plunger pump	Flow Adjust	0.1ml/min
Flow Rates	0 ~ 100 ml/min	Flow Accuracy	< 3%
Pressure	0 – 30 Mpa	Flow Repeatability	< 3% RSD
Dimensions	485 x 400 x 200, (mm)	Weight.	24.5 kg

Infusion way	Series dual-plunger pump	Flow Adjust	0.1ml/min
Flow Rates	0.3 ~ 200 ml/min	Flow Accuracy	< 5%
Pressure	0 – 15 Mpa (10ml/min)	Flow Repeatability	<3%RSD
Dimensions	485 x 400 x 200, (mm)	Weight.	26 kg



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UV-10P UV/VISIBLE dual wavelength detector



Specifications:

- Dual wavelength and dual channel
- High sensitivity and wide linear range
- Open computer reverse control communication protocol
- Convenient for third-party software control

NO.	Cell Thickness	Fitting	Max. Flow Rate	Max. perssure
1	13	-	20	25
2	3	-	50	15
3	2/1.25/0.5	-	250	15
4	2/1.25/0.5	-	-	15
5	2/1.25/0.5	1/4"	10000	15



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LC-10P HIGH Pressure inf-usion pump



PT-10P-0500/1000

Mode of infusion	Double column piston parallel reciprocating pump
Control mode	RS232 or LAN, can be controlled by computer
System protection	The maximum pressure can be protected
Power	AC 100-240V,50/60Hz
Display	5.6 Touch screen
Size weigh	380*215*488mm(W*H*D)/27.2KG

PT-10P-0500

Flow velocity range	0.001~499.99ml/min
Set the step length	0.01mL/min
Flow velocity accuracy	±0.5%
Reproducible RSD (stability)	0.3%
Mmaximum working pressure	5Mpa
Power	750W

PT-10P-1000

Flow velocity range	0.001~999.99mi/min
Set the step length	0.01mL/min
Flow velocity accuracy	±0.5%
Reproducible RSD (stability)	0.3%
Mmaximum working pressure	15Ma
Power	100W



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501 Solvent Delivery System

Overview:

The Model 501 Isocratic pump is a high performance, compact solvent delivery module that has been designed to compete with the most expensive pump systems in the market in reliability and performance without the high cost. A dual piston design with solvent compressibility feedback assures virtually pulse-free and accurate solvent delivery.



Specifications:

Flow Range	0.001 – 9.999 ml/min
Delivery method	Double piston (Main & Auxiliary)
Pump head	10ml SST/Peek analytical
Accuracy	± 1% or ±2µL/min, whichever is greater ± 1% or ± 1µL/min, whichever is greater (Micro)
Flow rate settings	0 - 0.10 mL/min. 0.001 inc. 0.10 – 0.90 mL/min. 0.010 inc. 1.0 mL/min.+ 0.10 inc.
Precision	0.25% from 0.1 mL/min. to 10 mL/min. at 20 deg.C 0.25% from 0.05 mL/min. to 4 mL/min. at 20 degrees C (Micro)
Pmax	6000psi
System connections	1/16” capillaries
Dimensions	410mm x 180mm x270mm
Weight	7.3kgs
Power input	85 to 264 VAC, 47 to 63 Hz, 60 Watts
Display	320mm
Control	Stand alone mode using front panel

Features:

- Ø Self-priming pump head requires no manual priming
- Ø Patented “Floating Pump Seal” designed for extended seal wear
- Ø Available with micro, analytical, semi-prep, and prep pump heads
- Ø Programmable solvent compressibility compensation
- Ø Easy maintenance and service for all wetted parts
- Ø Integral prime/purge assembly for quick solvent change



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501 UV-VIS Spectrophotometric Detector

Overview:

Surwit 501 UV-VIS can be connected to any sort of liquid pump, accuracy wavelength, high sensitivity, widely linear range. This is a cost-effective and reliable, practical, economic testing unit.



Specifications:

Wavelength	190-700 nm
Spectral bandwidth	6 nm
Wavelength Accuracy	$\leq \pm 1$ nm
Wavelength Reproducibility	$\leq \pm 0.5$ nm
Flow pool volume	10 μ L
Optical path	10 mm
Dynamic Noise	$\leq \pm 2.5 \times 10^{-5}$ AU (Methanol, 1ml/min, 254nm)
Static Noise	$\leq \pm 1 \times 10^{-5}$ AU (Empty pool, Response time 1 s)
Dynamic Drifting	$\leq \pm 2.5 \times 10^{-4}$ AU (Methanol, 1ml/min, 254nm)
Static Drifting	$\leq \pm 1 \times 10^{-4}$ AU (Empty pool, Response time 1 s)
Qualitative repeatability	RSD $\leq 0.1\%$
Quantitative repeatability	RSD $\leq 0.5\%$
Dimensions	160H x 260W x 350 D, (mm)
Weight.	6kg
Minimum detection concentration	$\leq 1 \times 10^{-8}$ g/mL(Naphthalene/methanol solution)

Features:

- Ø Unique pool structure ensures the accuracy and sensitivity of the instrument
- Ø Easy maintenance and service for all wetted parts



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STI501 Prep System

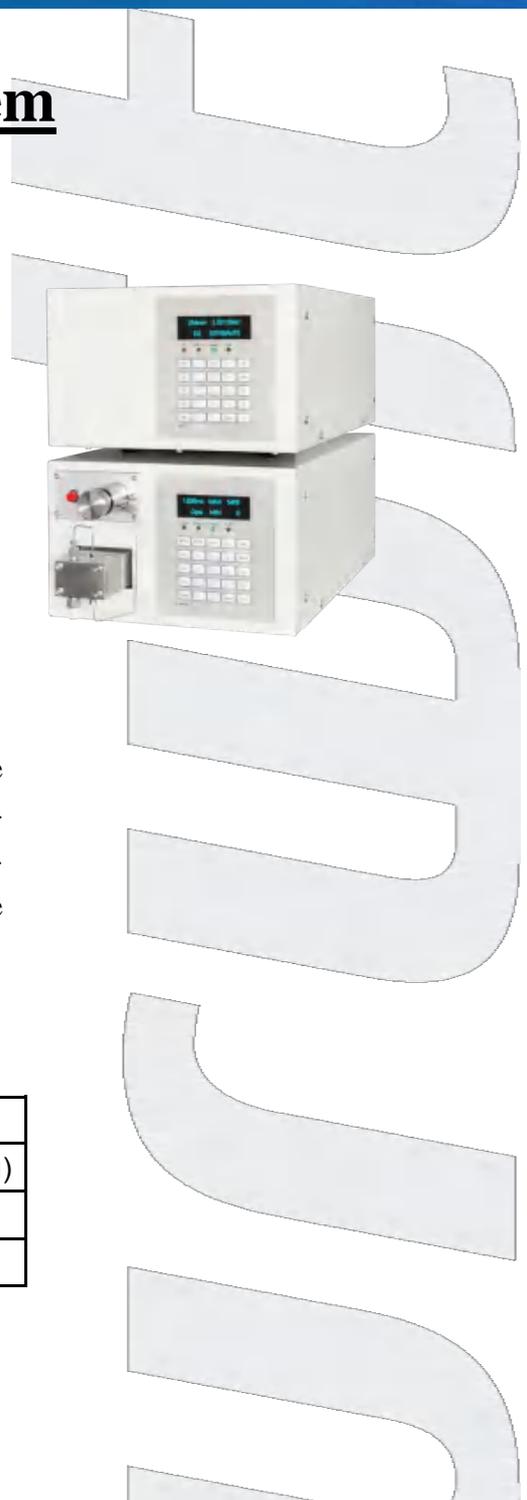
Quickview:

Flow: 0.1-80.0 ml/min
 Max Pressure: 1500 psi
 Wavelength Range 190-700 nm
 Flow pool volume: 10 μ L Optical path: 10 mm
 Spectral bandwidth: 6 nm
 Size: 170H x 260W x 360D, (mm)
 Weight: (6.3 kg)
 Certificate:GB/T 19001-2008/ISO 9001:2008

STI 501 provides the Piston rod automatic cleaning device, the unique technology in the world, which can reduce the piston rod damage, operate costly and be easily operated. Patent design "float type double piston rod and sealing ring" technology can prolong the service life of the sealing ring.

STI PT501

Infusion way	Series dual-plunger pump	Flow Precision	0.1
Flow Rates	0.1 ~80.0 ml/min	Weight.	(6.3 kg)
Pressure	0 - 1500 psi		
Dimensions	170H x 260W x 360D, (mm)		



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STI501 Prep System

STI UV501 UV-VIS Spectrophotometric Detector



Wavelength	190-700 nm	Spectral bandwidth	6 nm
Wavelength Accuracy	$\leq \pm 1$ nm	Flow pool volume	10 μ L
Wavelength Reproducibility	$\leq \pm 0.5$ nm	Optical path	10 mm
Dynamic Noise	$\leq \pm 2.5 \times 10^{-5}$ AU (Methanol, 1ml/min, 254nm, 20 °C)	Static Noise	$\leq \pm 1 \times 10^{-5}$ AU (Empty pool, Response time 1 s, 20 °C)
Dynamic Drifting	$\leq \pm 2.5 \times 10^{-4}$ AU (Methanol, 1ml/min, 254nm, 20 °C)	Static Drifting	$\leq \pm 1 \times 10^{-4}$ AU (Empty pool, Response time 1 s, 20 °C)
Qualitative repeatability	RSD $\leq 0.1\%$	Quantitative repeatability	RSD $\leq 0.5\%$
Dimensions	160H x 260W x 350 D, (mm)	Weight.	6kg
Operating Temperature	4-40 °C	Minimum detection concentration	$\leq 1 \times 10^{-8}$ g/mL(Naphthalene/methanol solution)
Linear range	$\geq 10^4$		



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SZ-100 series Embedded Micro Pumps

Ultra-small design

can be embedded size, to meet the diverse needs of customers

Diversify to binary system

OEM/Change Head

Standard RS-232, optional 485 / network port interface for external control

▲ Can be used as an infusion pump for the analytical HPLC

▲ analysis and preparation for food, medicine, chemical industry, environment and other industries

▲ the scenarios used for liquid flow quantification calculations

▲ other high-pressure, stable infusion needs



Flow rate range	0.001-9.999 mL / min (10 mL pump head) minimum step 0.001 mL / min
Infusion method	Double plunger series reciprocating pump
Flow accuracy	0.5% (measured at 1 ml / min)
Flow rate reproducibility	≤0.2%RSD
pressure limit	0-40MPa
pressure fluctuation	0.1 MPa, flow rate 1 mL / min, pressure 10 MPa
size	130×210×110 mm (long and high depth)



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AT-100-plus High precision HPLC autosampler

Overview

AT-100 plus Automatic Sampler is launched by Science Technology (Hangzhou) Inc. to upgrade the LC-10T Gradient system to be more automation, efficiency, and intelligence. It can help experimenters to perform sample analysis more conveniently and quickly. It adopts a digital communication system, with a signal dynamic range of 106, and can perform reverse control of liquid chromatography on a computer or on App on pad.

HPLC Auto Sampler
Small size, high integration
Analytical-Semi-Preparative General

Powerful software functions, graphical interactive interface, pre-stored sampling method, intuitive and simple operation.

Integrated wash station, no need for built-in elution solution.

Empty bottle and empty plate prompt function, liquid leakage alarm function, avoid human misoperation.

A full range of high-precision, imported core fluid parts to ensure the highest performance of every link.

Reliability control panel, humanized control process design, RS232 external port can be connected to analytical instruments to realize fully automated sampling analysis.

Automatic sampler parameters

Performance indicator injection mode:

Full loop injection, partial injection, no loss injection volume: programmable

0-10000 μ L repeatability:

RSD<0.2% for full cycle injection

Partial injection with RSD<0.5%

Residual<0.01%

Linearity>0.999

Sample capacity: Two sets of sample racks

Syringe volume: 1000 μ L (standard), 125 μ L, 250 μ L, 500 μ L, 5000 μ L (optional)

Sample bottle:

6x9 position 1.5ml standard sample bottle 96 standard well micro drip plate

4x6 position 4ml sample bottle

3x5 position 10ml sample bottle



Manufacturer:

Science Technology(Hangzhou) INC.

6F, No.3 Building of Mingde Road, No.38 Yuanquzhong,
Hangzhou, Zhejiang 310053, P.R.China - 310053

Tel: +86-571-86631750

Fax: +86-571-86631735

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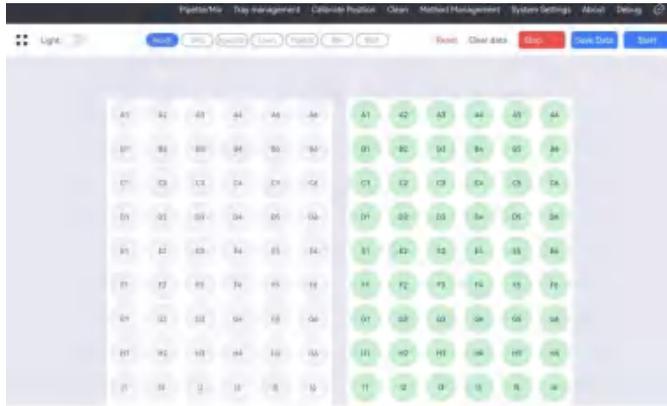


Figure3-1 Home page

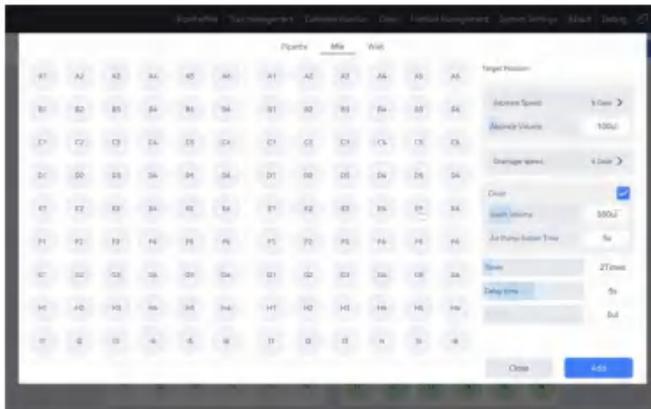


Figure3-2 Mixing

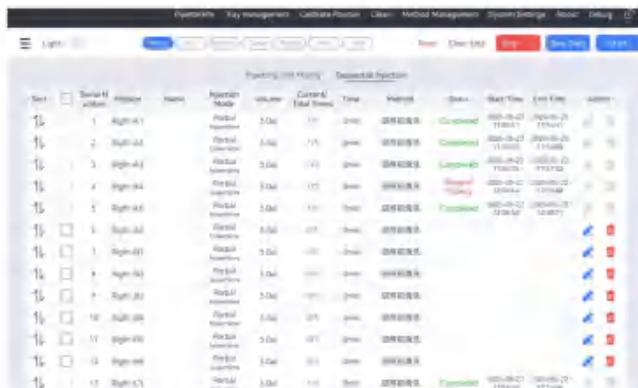
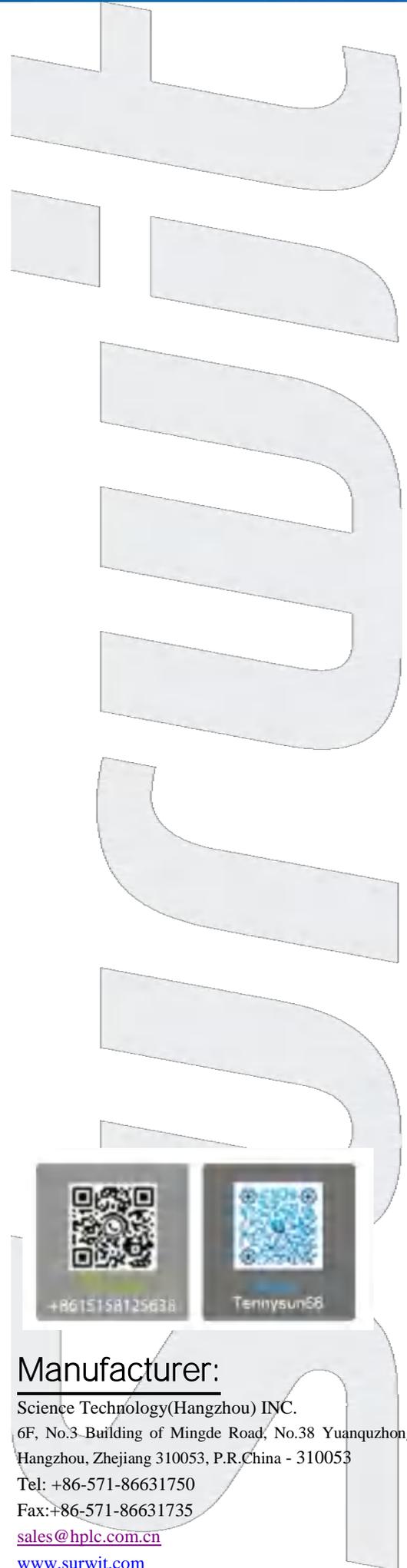


Figure3-4-1 Sequential Injection Monitoring



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 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
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Clarify Chromatography Data System



Quickview:

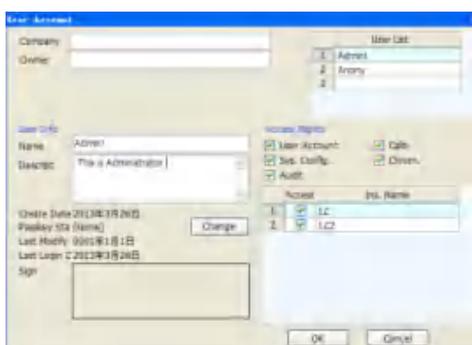
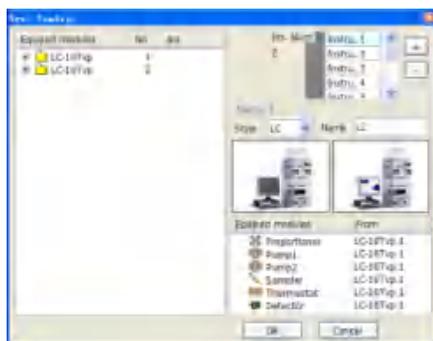
Quick Details Input channel count: 2;

Communication: USB;

Brand Name: Surwit

Model: Clarify

Certificate:GB/T 19001-2008/ISO 9001:2008 Can be connected to all chromatography system, such as GC, HPLC, CPC, IC, CE,meet the GMP regulation and it can replace all traditional recorder and integrator as well.



+8615158125638



Tennysun68

Manufacturer:

Science Technology(Hangzhou) INC.
6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
Hangzhou, Zhejiang 310053, P.R.China - 310053

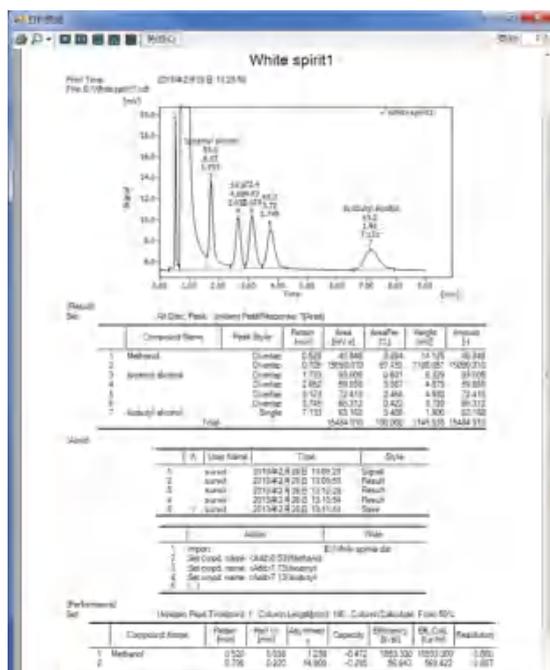
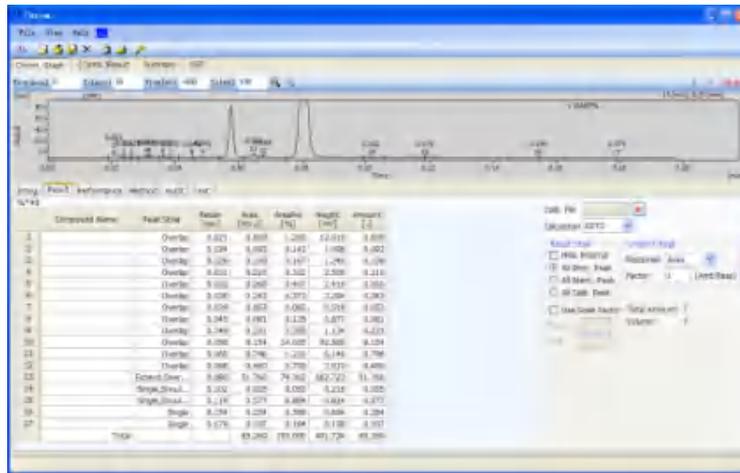
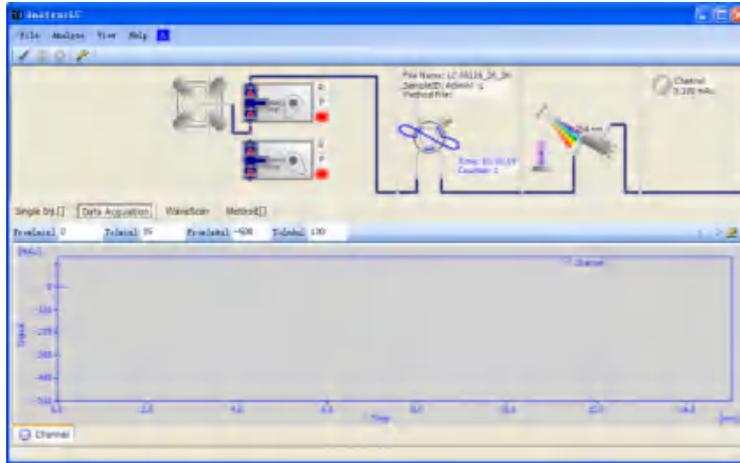
Tel: +86-571-86631750

Fax:+86-571-86631735

sales@hplc.com.cn

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Clarify Chromatography Data System



Manufacturer:

Science Technology(Hangzhou) INC.
 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
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SURVEY Chromatography Data System



Overview:

SURVEY is the updated version of Clarify, which add the function of account management, program management, also accord with GMP, FDA, 21CFR requirements.

Quick Details

- 1 Ensure the data safety on different authority users
- 1 SST Functions ensure the procession reliability
- 1 Audit Trail
- 1 Effective Group data process
- 1 More user defined templates
- 1 Meet GMP, GLP, FDA, 21CFR Certification

Specifications:

General

Number of Channels: 2
 Input Voltage: -2.5V ~ 2.5 V
 Input Resistance: > 10 MΩ
 Sensitivity of Integration: 1 u V/s
 Minimum resolution: 1 u V
 Dynamic Range: 10⁷
 Linearity: ±0.1 %

Peak Processing

Number of peaks: > 1000
 Width of peak: 0.01 s
 Automatic Time Programming
 Manual Integration enabled
 Automatic identification of complex peaks and precise partition of overlapped peak
 Automatic tracing and correcting base line
 Automatically eliminate the affect of negative peak
 Meet the GMP regulation

Methods for Identifying Peak

Conservative time method
 Components table method

Parameters for Integration

Peak area
 Peak height

Method for Quantitative Calculation

1. Normalized Method,
2. Normalized Method with Proportional Factor,
3. Internal Standard Method,
4. Grouping Method,
5. Multiple Internal Standard Method,
6. External Standard Method,
7. Logarithmic Method.



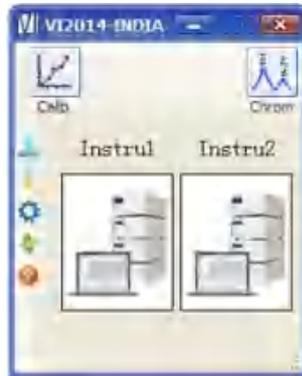
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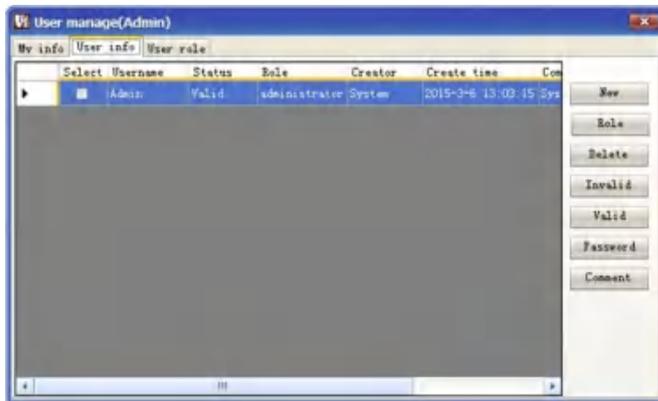
SURVEY Chromatography Data System

Work screenshots:

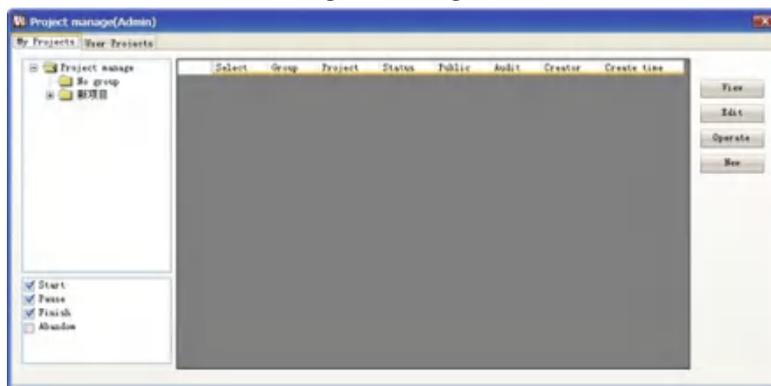
1. Main window



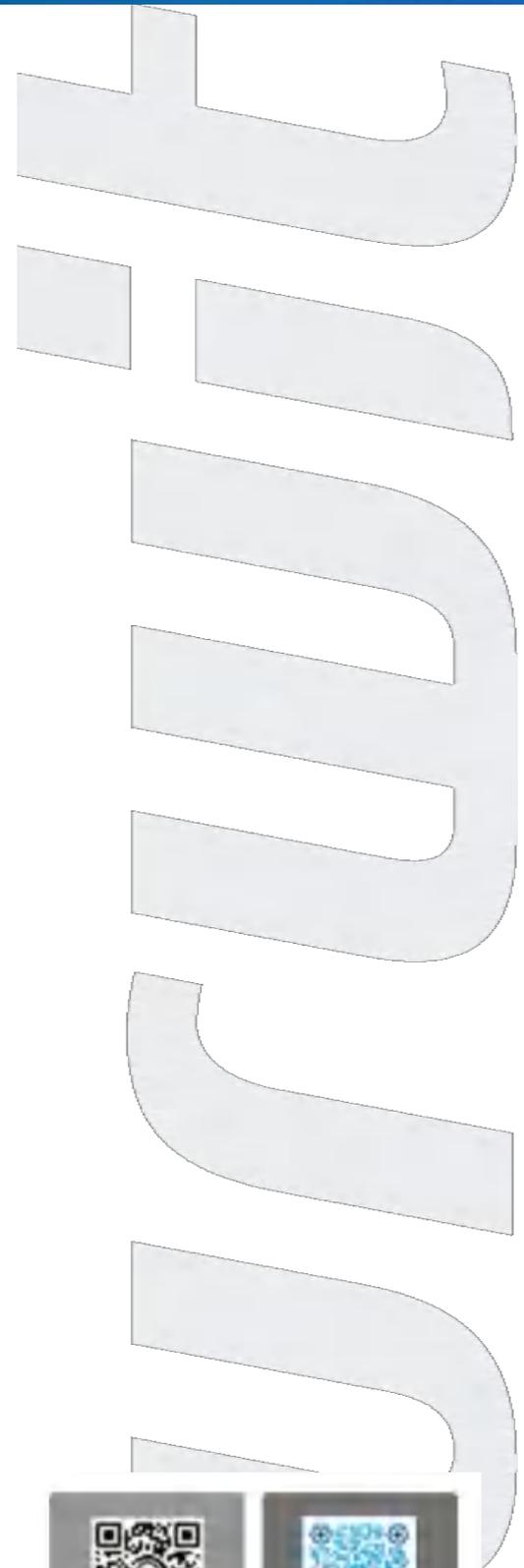
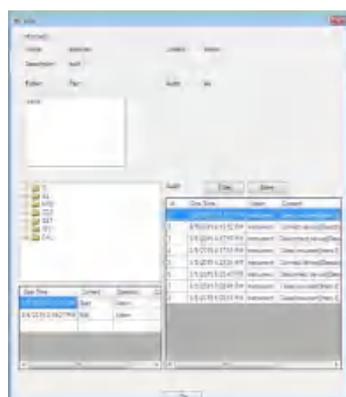
2. User management



3. Program management



4. Audit Record



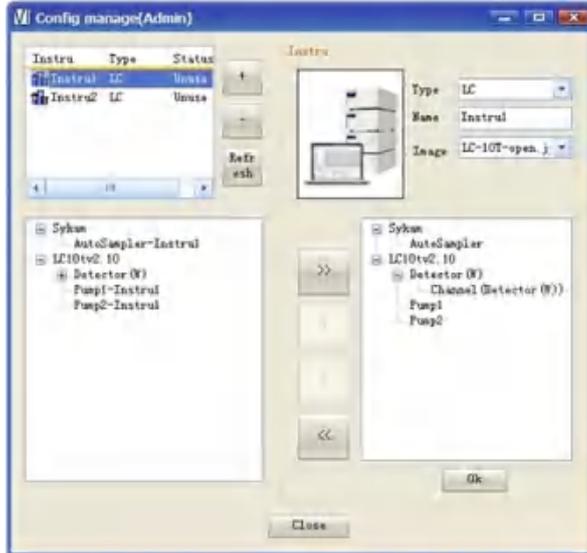
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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
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SURVEY Chromatography Data System

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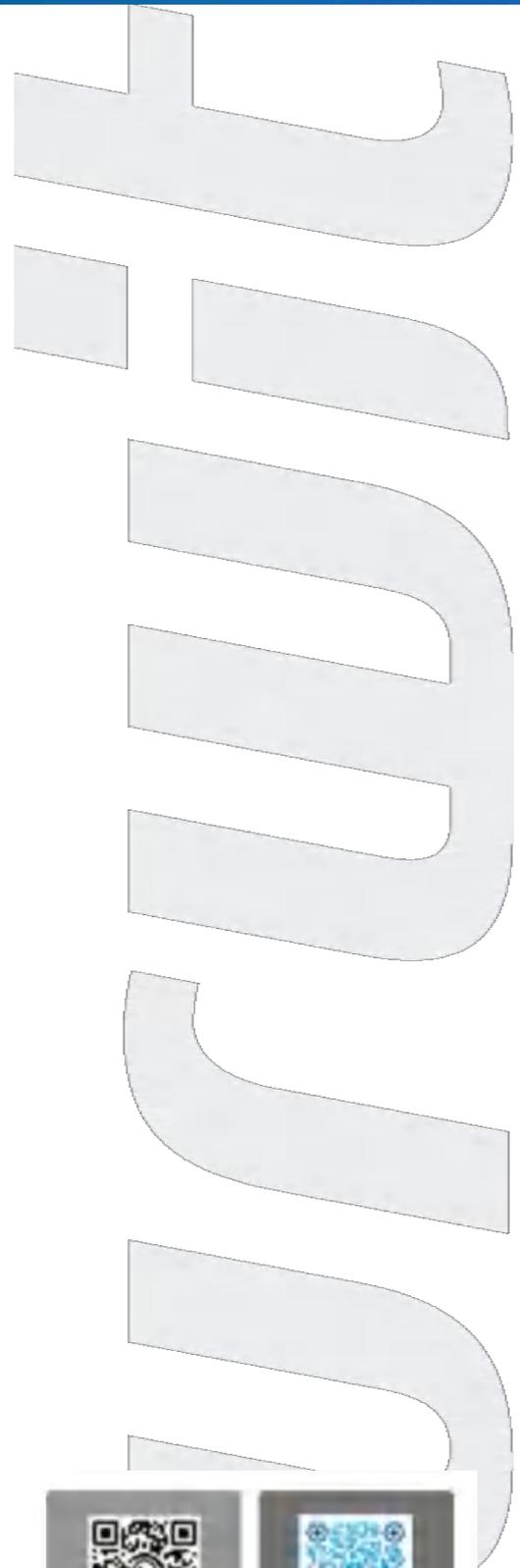
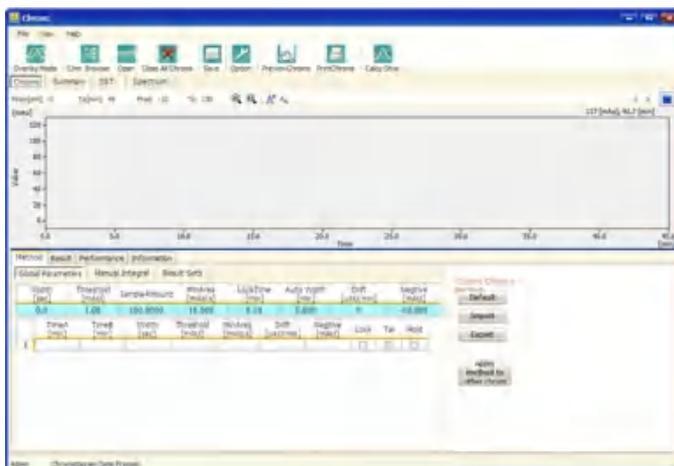
5. Config management



6. Work window



7. Spectrum processing



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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
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N2000 Chromatography Data System

Overview:

The N2000 Photographic Data Workstation is a software package, to install which on your personal computer will allow you to control your chromatography and analyze the data received from it.

Your personal computer then becomes a sophisticated chromatography integrator and a data storage device.

This Software allows you to:

1. Setup, modify, catalog, recall, and print data processing Methods.
2. Catalog and recall chromatographic data.
3. Analyze data by integrating to find, identify, and graph peaks.
4. Setup and run automated batches.
5. Graphically manipulate the displays via capabilities to zoom in / zoom out, split / unsplit screen, scroll, position relative cursors, track time and amplitude, and display baseline.
6. Graphically specify Timed Events.
7. Calculate, display, and print different kind of Reports, namely: the Area, Normalization, External Standard, and Internal Standard.
8. Create Customized Reports.
9. Export stored data through other data formats such that they can be used in other software packages such as Excel, Lotus 123, and debase III /IV.
10. Dynamically link with other Windows applications such as Microsoft Excel or Microsoft Word to exchange data.



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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
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N2000 Chromatography Data System

Specifications:

A1. Specifications of N2000 Chromatography Data System

General

Number of Channels: 2

Input Voltage: -5 mV ~ 1.7 V

Input Resistance: > 10 MW

Sensitivity of Integration: 1 mV-sec

Dynamic Range: 10⁷

Linearity: ~ 0.1 %

Peak Processing

Number of peaks: > 1000

Width of peak: 0.1 sec

Automatic Time Programming

Manual Integration enabled

Automatic identification of complex peaks and precise partition of overlapped peak

Automatic tracing and correcting base line

Automatically eliminate the affect of negative peak

Methods for Identifying Peak

Conservative time method

Components table method

Parameters for Integration

Peak area

Peak height

Method for Quantitative Calculation

1. Normalized Method,
2. Normalized Method with Proportional Factor,
3. Internal Standard Method,
4. Grouping Method,
5. Multiple Internal Standard Method,
6. External Standard Method,
7. Logarithmic Method.



A2. System Requirements

Hardware Computer

IBM or 100% compatible (P-1 or higher)

CPU: 166 MHz or faster

Memory: 32M Bytes or more

Disk Drive: 1 hard disk, 1 CD-ROM drive, 1 or 2 floppy disk drives

Monitor: VGA display and graphics card 256 colors, 1024 by 768 pixels

Mouse: Bus or serial mouse

Printer (optional): Any printer that works with Microsoft Windows

Software Windows

Microsoft Windows 95/98 or later

Internet Explorer 4.0 or later

Other Misc. Hardware

22-bit high performance ADC card

Terminal panel and cover



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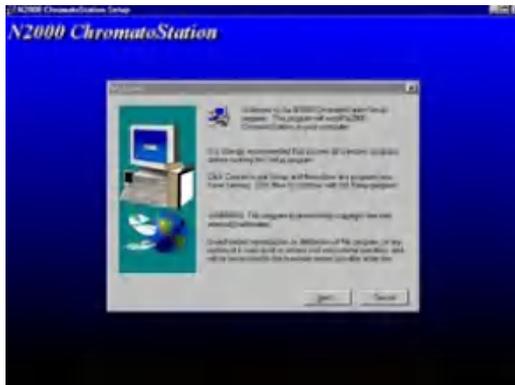
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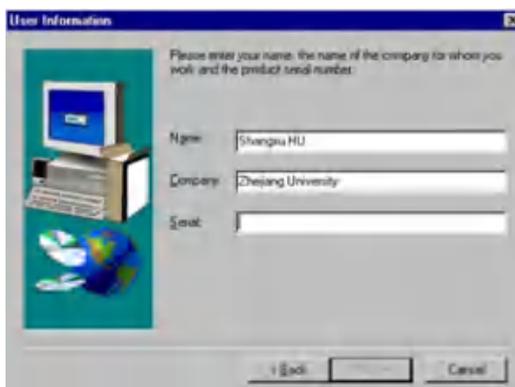
N2000 Chromatography Data System

Work screenshots:

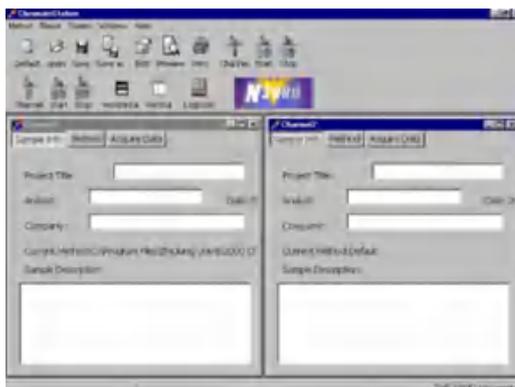
1. Software Installation



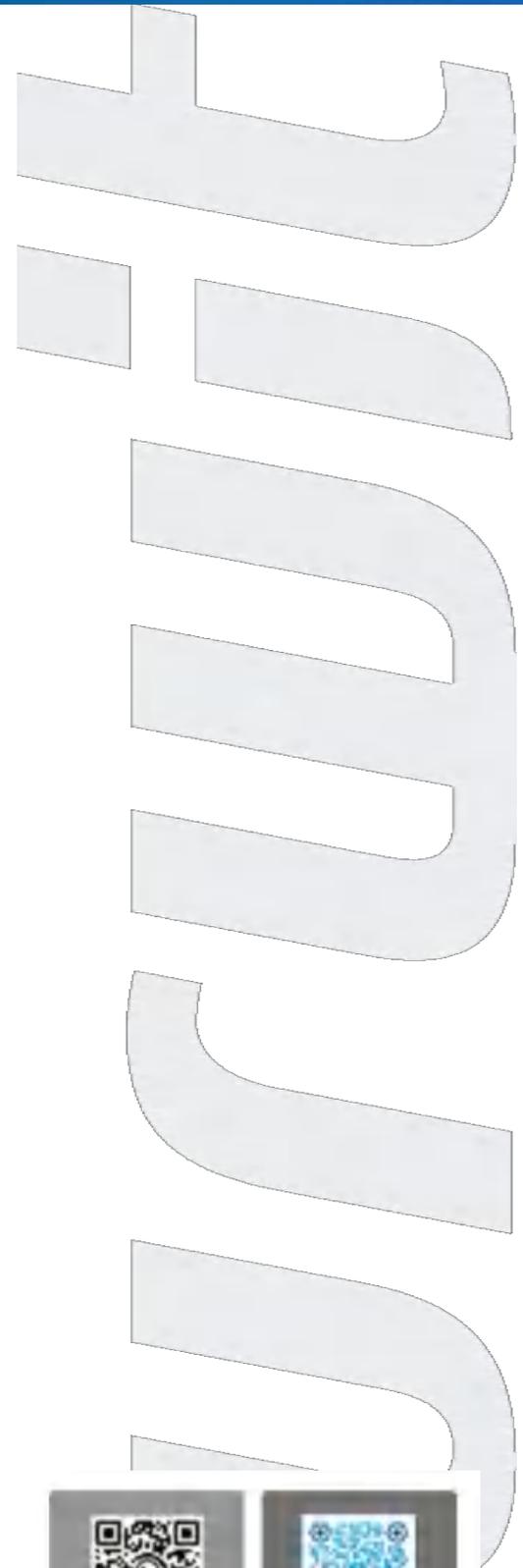
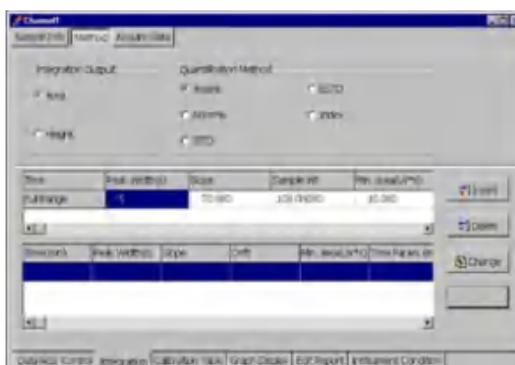
2. User information



3. Dual Channels



4. Sample Information



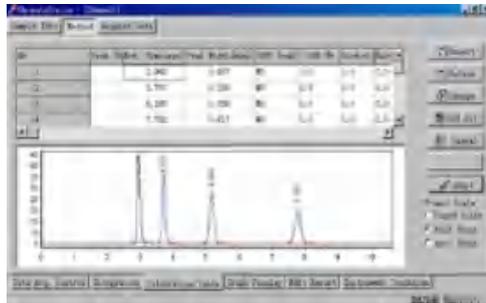
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N2000 Chromatography Data System

Work screenshots:

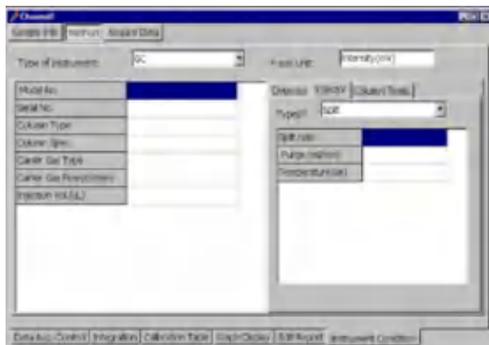
5. Edit Calibration



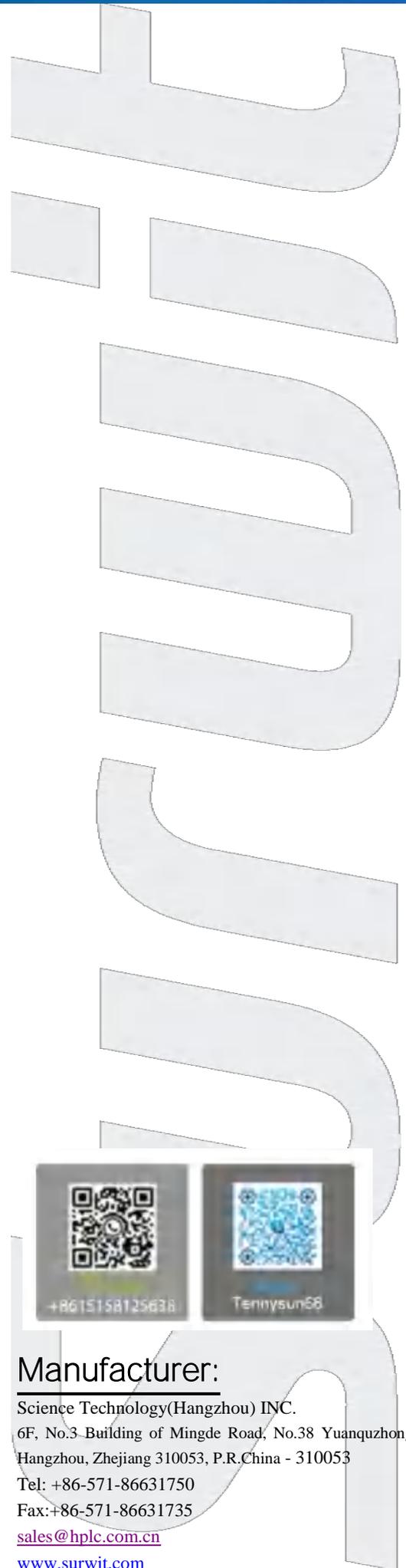
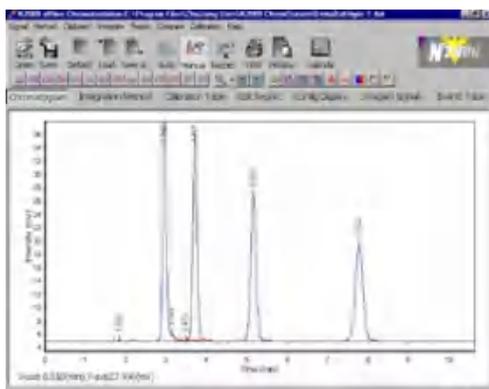
6. Experiment Report



7. Edit instrument condition



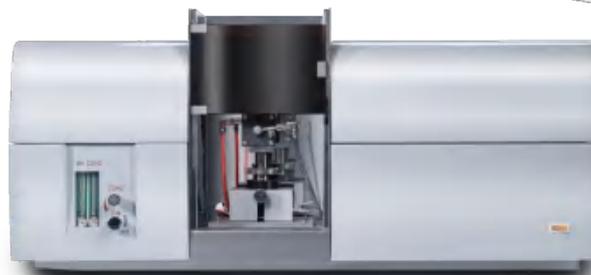
8. Acquiring Data



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4530B Atomic absorption spectro- photometer (single flame)



INTRODUCTION

The 4530B atomic absorption spectrophotometer owns high analysis accuracy, comprehensive humanized design consideration, and can fully meet the special needs of different customers. And according to different analysis requirements, optional graphite furnace control, automatic sampler, hydride generator, etc.

PERFORMANCE CHARACTERISTICS

1, Four lights or six lights are optional

Automatic 3 D switching, energy balance, multi-lamp position preheating at the same time to save the waiting time, you can choose the deuterium lamp buckle background and high-performance element lamp.

2. Automatic optimization of the instrument setting

The instrument is set to automatically optimize the memory function and complete the scan and peak search with one click.

3. Multi-format storage and printout of data report

Convenient for data query and comparison.

4. Software design makes the operation easier

Adopts single interface multi-function window design, real-time monitoring of data changes, support for mainstream Windows operating system, support remote control and calibration, optional Chinese / English version.

5. Advanced and reliable multiple security protection system

Automatic detection, alarm, such as insufficient pressure, air leakage, flameout and other unnormal conditions.

6. Expand and combine the functions

Hydride system, graphite furnace system and combined functions.

7. Automatic online detection function



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APPLICATION FIELD

Can be widely used in geology, metallurgy, medicine, chemical industry, petroleum, agriculture, environmental protection, commodity inspection and other industries. The analytical application of trace and trace elements has gradually penetrated from inorganic to organic chemistry.

SUPPORTING PRODUCTS

Hollow cathode lamp Microwave digestion instrument Ultra pure water machine Oil-free silent air compressor

Main engine	
Power Supply	AC 220V/50 Hz
power	150 W
operating ambient temperature	10°C~35°C
Humidity of working environment	≤80%
Appearance size	1000mm (long)* 400mm (W) *470mm (height)
weight	70 kg
Optical system	
detector	Japan Hamamatsu photomultiplier tube
wavelength coverage	185nm ~ 900nm
Grating line density	1800 Articles
monochromator	The Czerny-Turner contrast-enhanced type
spectral bandwidth	0.2nm, 0.4nm, 1.0nm, 2.0nm Multiple gear automatic switch
The wavelength indicated the error	≤±0.1 nm
wavelength repeatability	≤±0.025 nm
baseline drift	0.003 ABS / 30min (static) 0.005 ABS / 15min (dynamic)
resolving power	Cu 324.7nm wavelength, 0.2nm bandwidth and half width 0.2nm ± 0.01 nm
Light source system	
lamp-socket	Tower type automatic switch lamp frame
Light power supply mode	400 Hz, 1 / 4 duty cycle pulse lit
Light current adjustment range	(0-10) mA (average current) software adjustment
Atomic system	
characteristic concentration	(Cu) 0.025µg/mL /1%
detection limit	(Cu) 0.006µg/mL
burner	0.5mm 100mm full titanium burner
repetitiveness	RSD≤0.5%
sprayer	Metal sleeve high efficiency glass sprayer
atomizer chamber	Corrosion-resistant full-plastic atomization chamber
security guard	With a variety of automatic safety protection functions, acetylene air leakage alarm, close the system
Analytic procedure	
measuring method	Air-acetylene flame method
Concentration calculation method	Linear regression method automatically fits the working curve and automatically calculates the results
Number of repeated measurements	1 ~99 times, automatically calculate the mean, content, give the standard deviation and relative standard deviation
result output	Multi-format data preservation and print-out
communication interface	Standard RS232, USB Extension Interface
software environment	Windows XP / Vista / Windows7 operating system, Chinese professional software
Functional expansion	Hydride system and graphite furnace system



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GC100 GAS CHROMATOGRAPHY

PERFORMANCE CHARACTERISTICS

The GC100 series adopts fully computerized button operation, a 5.7-inch large screen with 13 lines of LCD Chinese display, human-machine dialogue mode, and easy operation.

GC100 adopts a brand new integrated digital electronic circuit, with high control accuracy, stable and reliable performance, high-precision temperature control of 60 times per second, and an accuracy of up to 0.1 °C.



TECHNICAL PARAMETER

Column box:

Temperature control range: Room temperature+5 °C~399 °C (increments of 0.1 °C)

Cheng Sheng Order: Nineteen orders

Cheng Sheng rate: 0.1 °C~50 °C (incremental 0.1 °C)

Cheng Sheng holding time: can be set by the user themselves

Sample injector:

Up to 3 injection systems can be installed simultaneously

Injection unit: Fill column injection system

Split/non split capillary injection system (with diaphragm cleaning function)

Temperature control range: room temperature+5 °C~399 °C

All original components of the sampler are corrosion-resistant



Manufacturer:

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GC100 GAS CHROMATOGRAPHY

TECHNICAL PARAMETER

Detector:

Up to three detectors can be installed simultaneously

Temperature control range: Room temperature+30 °C~400 °C

Thermal conductivity detector (TCD):

Sensitivity: $S \geq 12000 \text{mv.ml/mg}$ (n-hexadecane)

Dynamic range: $\geq 10^6$

Baseline noise: $\leq 20 \mu\text{V}$ (with a carrier gas of 99.999% hydrogen)

All detector components are corrosion-resistant

FID detector:

Sensitivity/Sensitivity : $Mf \leq 1 \times 10^{-13} \text{ g/s}$ (benzene)

Noise: $\leq 0.02 \text{mV}$

Drift: $\leq 0.15 \text{mV/h}$

Linear: $\geq 10^7$

characteristic

Circular collection electrode, corundum ceramic nozzle



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IC-100 Ion Chromatograph System

Advantages and parameters

- ▶ 7.0-inch touch screen: ARM series, WIN 7 control platform, reliable and stable operation.

Real time monitoring of instrument operation status and modification of instrument parameters.

- ▶ Real time connection with PC control software, achieving synchronization of all states.
- ▶ When displaying the spectrogram, appropriate operations can be performed on the spectrogram to make the analysis more intuitive.

PC data software system

- ▶ Equipped with remote control function for the instrument, it can be controlled through a PC and synchronized with the touch screen.
- ▶ Adopting a 24 bit A/D acquisition chip to achieve high-precision data signal acquisition and processing.
- ▶ The concise and user-friendly data operation mode, powerful data processing and analysis functions ensure that users can achieve accurate processing of complex data through simple operations.

Chromatographic pump

- ▶ Full PEEK pump head pressure range: 0-35MPa
- ▶ Flow setting range; 0.001-10.000ml/min
- ▶ Flow setting error: $\leq 0.1\%$ (rinsing solution is water, flow rate is 1ml/min, load pressure is 6MPa)
- ▶ Flow stability error: $\leq 0.1\%$ (rinsing solution is water, flow rate is 1ml/min, load pressure is 6MPa)
- ▶ Minimum detectable concentration ($\mu\text{g/g}$): Cl ≤ 0.00008 ; NO₃ - ≤ 0.005 ; Na⁺ ≤ 0.0005 ; Ca²⁺ ≤ 0.010
- ▶ Linear range: $\geq 10^2$
- ▶ Linear correlation coefficient: ≥ 0.999
- ▶ Retention time repeatability error: NO₃⁻, SO₄²⁻, Na⁺, and Ca²⁺ $\leq 1.0\%$



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IC-100 Ion Chromatograph System

Suppressor constant current source

- ▶ Current range: 0-300mA
- ▶ Current setting increase: 0.1Ma

Chromatographic Column Temperature Chamber

- ▶ Temperature setting error: $\leq 0.1\text{ }^{\circ}\text{C}$
- ▶ Temperature control stability error: $\leq 0.1\text{ }^{\circ}\text{C}$
- ▶ Temperature display accuracy: $0.01\text{ }^{\circ}\text{C}$

Conductivity detector

Digital conductivity detector

- ▶ Baseline noise: $\leq 0.5\%$ FS
- ▶ Baseline drift: $\leq \pm 1.0\%$ FS
- ▶ Minimum detectable concentration ($\mu\text{ g/g}$): $\text{Cl} \leq 0.00008$; $\text{NO}_3^- \leq 0.005$; $\text{Na}^+ \leq 0.0005$; $\text{Ca}^{2+} \leq 0.010$
- ▶ Linear range: $\geq 10^2$
- ▶ Linear correlation coefficient: ≥ 0.999
- ▶ Retention time repeatability error: NO_3^- , SO_4^{2-} , Na^+ , and $\text{Ca}^{2+} \leq 1.0\%$



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S3000 spectrometer

Overview:

S3000 is a spectrometer made by Surwit Technology Inc.,

This spectrometer is designed for spectrum analysis in LED, energy-saving lamps, fluorescent lamps and many other fields.



Features:

Modular design

User-configured wavelength range and resolution

Automatically reads the wavelength calibration coefficients of the spectrometer and configures operating software

USB-to-PC interface; no external power requirements

Specifications:

S3000-VIS	
Power supply	5V DC provided by PC USB port
Wavelength range	330 nm- 1100 nm
Detector	TCD1305 UV-Enhanced CCD
Slit	30um
Grating	600line/mm@250nm
Wavelength resolution	Depending on grating and slit, minimum to 0.2nm
S/N ratio	500:1
Scatter light	<0.1%
CCD Linearity correction	99.8%
Power consumption	95mA@5V
Communication interface	USB2.0/RS232
A/D conversion	16Bit
Fiber interface	SMA905
Dimension	115mm(L)*80mm(W)*40mm(H)
Weight	500 g
Minimum exposure time	0.01ms
Maximum exposure time	60s
Wavelength repeat error	< 0.2nm
Wavelength absolute error	< 0.5nm
FWHM	< 1 nm
Operating temperature	-40°C ~ 85°C
Software	Spectra Pro



+8615158125638



TennySun68

Manufacturer:

Science Technology(Hangzhou) INC.
 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
sales@hplc.com.cn
www.surwit.com

Specifications:

S3000-UV	
Power supply	5V DC provided by PC USB port
Wavelength range	200nm ~ 950nm
Detector	TCD1304 UV enhanced CCD
Slit	30um
Grating	600line/mm@250nm
Wavelength resolution	Depending on grating and slit, minimum to 0.2nm
S/N ratio	500:1
Scatter light	<0.1%
CCD Linearity correction	99.8%
Power consumption	95mA@5V
Communication interface	USB2.0/RS232
A/D conversion	16 bit high precision AD
Fiber interface	SMA905
Dimension	115mm(L)*80mm(W)*40mm(H)
Weight	500 g
Minimum exposure time	0.01ms
Maximum exposure time	60s
Wavelength repeat error	< 0.2nm
Wavelength absolute error	< 0.5nm
FWHM	< 1 nm
Operating temperature	-40°C ~ 85°C
Software	Spectra Pro

S3000-UV-NIR	
Power supply	5V DC provided by PC USB port
Wavelength range	190nm ~ 1100nm
Detector	TCD1304 UV enhanced CCD
Slit	30um
Grating	Dual blazed grating,600line/mm@250nm=750nm
Wavelength resolution	Depending on grating and slit, minimum to 0.2nm
S/N ratio	500:1
Scatter light	<0.1%
CCD Linearity correction	99.8%
Power consumption	95mA@5V
Communication interface	USB2.0/RS232
A/D conversion	16 bit high precision AD
Fiber interface	SMA905
Dimension	115mm(L)*80mm(W)*40mm(H)
Weight	500 g
Minimum exposure time	0.01ms
Maximum exposure time	60s
Wavelength repeat error	< 0.3 nm
Wavelength absolute error	< 0.3 nm
FWHM	< 1 nm
Operating temperature	-40°C ~ 85°C
Software	Spectra Pro

Overview:

S3000-UV-NIR is a UV spectrometer made by Surwit Technology Inc.

This spectrometer is designed for spectrum analysis in food, chemistry, biology and many other fields.



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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
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sales@hplc.com.cn
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S5500 VIS spectrometer



Overview:

S5500-ViS is a miniature spectrometer configured with crossed Czerny-Turner optical bench. Free Software and Software Development Kit (SDK) is available for spectrum analysis in various applications.

» Features

- Wavelength Range: 300nm ~ 1100nm
- Free Software (SpectraPro V3.2 + Spectra V2.0)
- Software Development Kit (SDK) for Windows / Embedded system / Linux
- RS232 Communication Protocol Support for Embedded System
- High sensitivity

» Applications

- Visible Light Analysis
- Colorimetry Measurements
- Color Measurement

» Structure

Parameter	Specification	Unit
Dimension	115 mm(L) x 80 mm (W) x 40 mm (H)	mm
Weight	500	g
Connector for Optical Fiber	SMA905	-
Slit	30 5/10/20/25/30/50/100/150/200um Available	um
Grating	600@300nm	groove/mm
Detector (Image Sensor)	CMOS Linear Image Sensor	-
Number of Pixels	2048	pixels
A/D conversion	16bit high precision AD	-
USB Interface	USB2.0 / USB1.1	-
Communication Interface	USB RS232 and LAN is optional	-
Software	Spectra + SpectraPro	-
Software Development Kit (SDK)	Available on Windows / Embedded System / Linux	-



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Tennysun58

Manufacturer:

Science Technology (Hangzhou) INC.
 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax: +86-571-86631735
sales@hplc.com.cn
www.surwit.com

S5500-UV-NIR spectrometer



Overview:

S5500-UV-NIR is a miniature spectrometer configured with crossed Czerny-Turner optical bench. Free Software and Software Development Kit(SDK) is available for spectrum analysis in various applications.

» Features

- Wavelength Range: 190nm ~ 1070nm
- UV Enhanced
- Free Software(SpectraPro V3.2 + Spectra V2.0)
- Software Development Kit(SDK) for Windows / Embedded system / Linux
- RS232 Communication Protocol Support for Embedded System
- High sensitivity
-

» Applications

- Transmission & Reflection Measurements
- Absorbance / Concentration Measurements / Chemical Research
- dsDNA / Protein Analysis (SpectroPhotometer) / Biomedical Research
- UV-VIS Light Analysis

» Structure

Parameter	Specification	Unit
Dimension	115 mm(L) x 80 mm (W) x 40 mm (H)	mm
Weight	500	g
Connector for Optical Fiber	SMA905	-
Slit	30 5/10/20/25/30/50/100/150/200um Available	um
Grating	600@250nm	groove/mm
Detector(Image Sensor)	CMOS Linear Image Sensor (UV Enhanced)	-
Number of Pixels	2048	pixels
A/D conversion	16bit high precision AD	-
USB Interface	USB2.0 / USB1.1	-
Communication Interface	USB RS232 and LAN is optional	-
Software	Spectra + SpectraPro	-
Software Development Kit(SDK)	Available on Windows / Embedded System / Linux	-



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Tennysun68

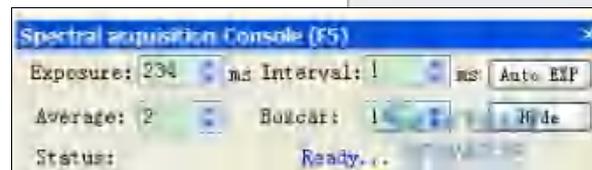
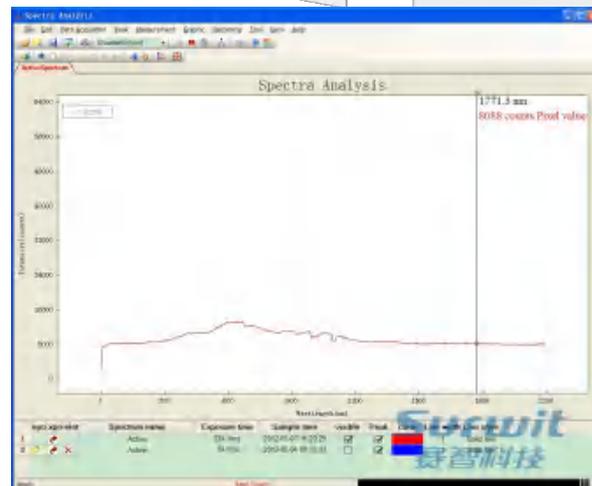
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Spectra Analysis

Overview:

SpectraAnalysis have multiple spectra line display,multiple spectra dispose,snapshot,buffer spectra, peak-searching/valley-searching,FWHM, coordinate convert,spectra recording functions. It mainly consist by Control Window ,Spectra Window and Spectra List Window. Control window used to change settings of USB data collection;Spectra Window display the current spectra or file spectra collect from USB and open spectra recording file ; Spectra setting window mainly control the display style of spectra line. Text label, mouse right button spectra line move, prompt bar and mouse prompt in spectra graphic make the operation more convenient, and get the spectra line information easily. It can contract with Microsoft ,export the spectra data asExcel and Word files. The program will save the spectra as *.ssp files,double click or move file into window can open the spectra graphic.



Color Analysis

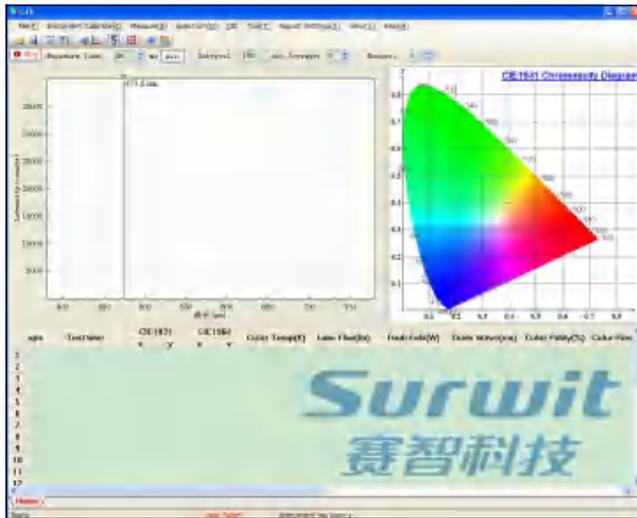
The function use the international authority full spectrum method (Without V (lambda) error correction) to analysis spectral power distribution, chromaticity coordinates, correlated color temperature, color deviation , color tolerance, peak wavelength, color rendering index (Ra) of LED, energy-saving light source and fluorescent powder . Wavelength range is 380nm ~ 780nm. The corresponding electrical equipment can measure voltage, current, power source, power factor. The analysis and control of products are all realized by computer software, software operation is simple, and with a strong light source test and data analysis and processing function, measurement data can be exported to Excel, txt and SSP (spectral file) for a variety of file formats, very convenient for calculation and analysis.



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Color Analysis



Spectra Data

The screenshot shows a 'Spectra Data' window with a table of spectral data. The table has two columns for 'Wavelength(nm)' and 'Intensity(count)'. The data is as follows:

Wavelength(nm)	Intensity(count)	Wavelength(nm)	Intensity(count)
1.00	1.921	325.12	9.161
2.00	2.539	325.52	9.131
3.00	3.559	325.92	9.102
4.00	5.483	326.32	9.126
5.00	6.613	326.73	9.193
6.00	7.179	327.13	9.246
7.00	7.367	327.53	9.257
8.00	7.373	327.93	9.280
9.00	7.371	328.33	9.231
10.00	7.367	328.73	9.219
11.00	7.376	329.13	9.224
12.00	7.383	329.53	9.225
13.00	7.401	329.93	9.230
14.00	7.442	330.33	9.230
15.00	7.512	330.73	9.244
16.00	7.550	331.13	9.235
17.00	7.585	331.53	9.234
18.00	7.810	331.93	9.235
19.00	7.809	332.33	9.226

Software can be download at
<http://www.surwit.com/yArticInfo/104.htm>



+8615158125638



Tennysun68

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 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
sales@hplc.com.cn
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8725i Manual Injector

Overview:

The Surwit 8725(i) Manual Sample Injector is a six-port sample injection valves in which the sample is loaded through a built-in needle port in the front of the valve. Surwit 8725(i) is the stain less steel version.

Specifications:

Specification	Details
Sample Loop Sizes (Range)	5 μ L
	10 μ L
	20 μ L
pH	0-14
Max. Built-in position sensing switch	25V,100mA
Flow Passage Diameters [mm (inches)]	0.5 (0.02)
Repeatability	< 0.2%
Max. Psi	5400 (37MPa)
Max T($^{\circ}$ C)	80 $^{\circ}$



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Manufacturer:

Science Technology(Hangzhou) INC.
 6F, No.3 Building of Mingde Road, No.38 Yuanquzhong,
 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
sales@hplc.com.cn
www.surwit.com

Kromastar C18 Column

Description:

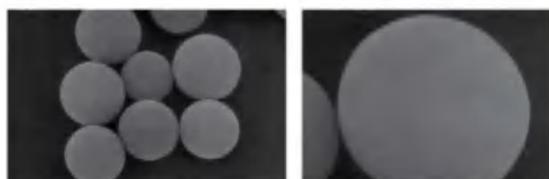
A retentive, high-purity packing that exhibits excellent peak shape for a wide range of compounds. Excellent general-purpose reversed phase column.



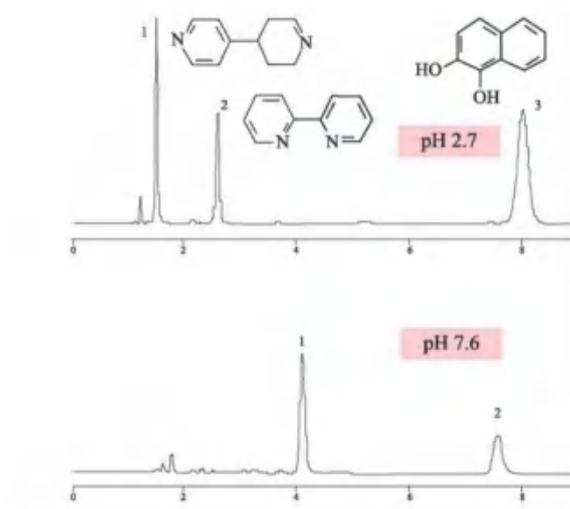
Features

- Particle size: 5µm, spherical
- Column size: Kromastar C18 4.6×150 or 250/5µm
- Pore size: 120Å
- Carbon load: 17%
- Endcap: fully endcapped
- PH range: 1.5 to 10.0
- Specific surface area: 320m²/g
- Tailing factor: 0.95-1.05
- Packing material: silica

Silica gel matrix particle distribution



Trace metal analysis effect



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Kromastar C18 Column

Mixer:

Liquid Chromatography Column is packed with 99.99% purity of the ultra high purity full porous spherical silica gel, adopted unipolar stationary phase bonding technology and complete sealing technology to produce, which has good peak shape, separation efficiency, stability and repeatability



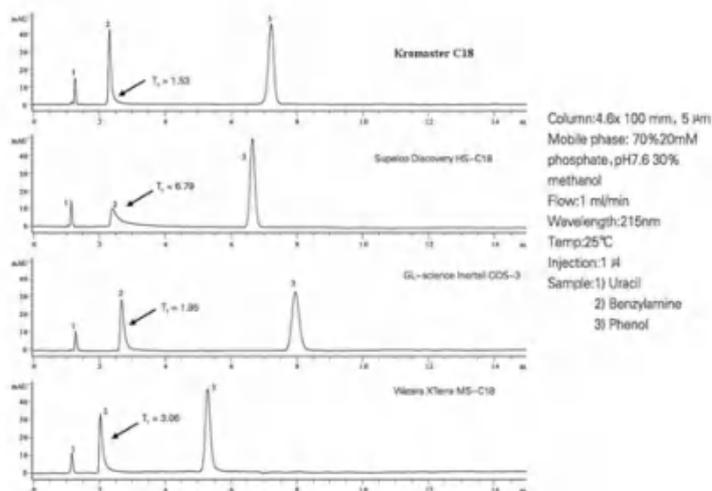
Specification:

Mixed mobile phase channel	1-3
Mixture velocity	0.001-9.999ml
Mixing volume	0.8ml、2.0ml、3.0ml
Flow 1.0ml / min system pressure	less than 0.2Mpa
Delay volume	less than 2.5ml
Pressure	42Mpa
Gradient mixing error less than	0.55%

Replace brand HPLC Column

Kromaster can replace below list:

- Waters Symmetry C18
- Agilent Zorbax XDB C18
- Phenomenex Luna C18
- Supelcosil LC-18-DB
- YMC ODS-AM
- Alltima C18
- GL-science Inertsil ODS-2



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Constant temperature column oven

The main proposes of constant temperature oven:

1. To control the operating temperature of chromatography column exactly and stably.
2. To enhance the column efficiency and sensitivity.
3. To improve the separation degree of column peaks.
4. To shorten the retention time.
5. To reduce the back pressure.
6. To ensure good reproducibility of samples.

Characteristics of performance:

1. Intelligent temperature-controlling unit
Using advanced artificial intelligent arithmetic, no over flows, with high control precision
Double LED digital display shows the set temperature and actual temperature respectively, making it easier to operate.
2. Column oven. Spacious column oven could accommodate 2 columns, much easier to assemble and disassemble.

Technical specifications:

Temperature error : $\pm 0.1^{\circ}\text{C}$

Temperature reproducibility: $\pm 0.1^{\circ}\text{C}$

Resolution: 0.1°C

Absolute accuracy: $\pm 0.1^{\circ}\text{C}$ at 50°C Temperature range: $\text{RT}+5\sim 100^{\circ}\text{C}$



+8615158125638



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6F, No.3 Building of Mingde Road, No.38 Yuanquzhong ,
Hangzhou, Zhejiang 310053, P.R.China - 310053
Tel: +86-571-86631750
Fax:+86-571-86631735
sales@hplc.com.cn
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SKDG-20 Ultra small online degasser

Overview:

The degassing component is easy for customers to install and plug and play. Excellent degassing performance, able to meet the needs of liquid phase systems and medical fields.

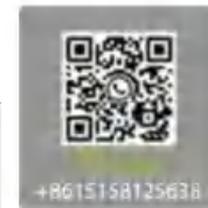
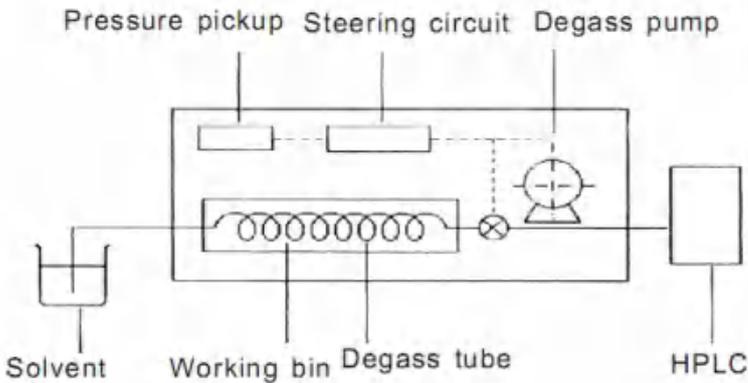
Product description: Ultra small online degasser

Product model: SKDG-20

Degassing material: Teflon AF

Thread specification: No.1/4-28UNF

Product size: 188mm * 72mm * 98mm



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Hangzhou, Zhejiang 310053, P.R.China - 310053
Tel: +86-571-86631750
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Deuterium Light Source D04

D04 deuterium light source is the fiber coupling UV light source, covering the wavelength range 190nm-> 400nm, using 30W deuterium lamp as a light source, output interface with SMA905 interface. also

It can be also used together with adjustable tungsten lamp light source H03 to expand the wavelength measurement range to 190nm~1000nm.



Front panel of Deuterium light source

Feature

- Fiber Coupling
- UV / VIS optical output
- High stability
- Compact
- long life

Typical spectral output



Performance parameters

The spectral output range	190nm~400nm
power	30W
Optical interface	SMA905
Input Power	DC 24V 2A
Operating temperature	-10~35°C
size	200mm(L) * 180mm(W) * 80mm(H)
weight	2.0Kg
life	~2000H



+8615158125638



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 Hangzhou, Zhejiang 310053, P.R.China - 310053
 Tel: +86-571-86631750
 Fax:+86-571-86631735
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Adjustable tungsten light source H03

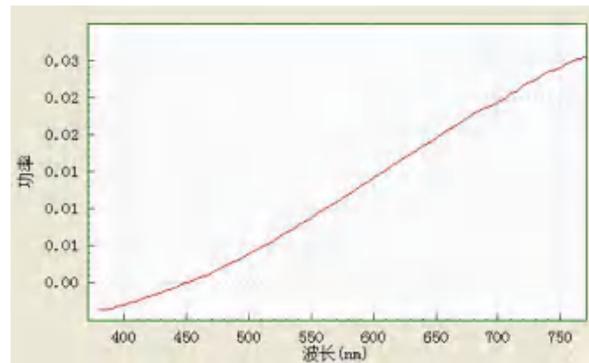
H03 adjustable tungsten light source is a fiber-coupled visible / near-infrared light, covering the wavelength range 330nm-> 2600nm. In the visible and near infrared bands using 10W or 20W tungsten lamp, using SMA905 or FC interface output energy. DC12V power supply direct power supply, strong integrity, is the best choice for the transmission and absorption spectra measurement.



Feature

- Fiber Coupling
- VIA / NIR optical output
- High stability
- Compact
- long life

Typical spectral output



Technical Parameters

The spectral output range	330nm~2600nm
power	10W
Input Power	DC12V
Operating temperature	-10~35℃
Settling Time	1~2minutes
size	128mm(L) * 95mm(W) * 53mm(H)
weight	420g(without optical fiber)
Optical interface	SMA905(FC interface can be choosed)
Recommendation fiber core diameter	400um
life	> 2000h



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