



Chinese HPLC Manufacturer

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Surwit

Science technology (hangzhou) INC.

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Manufacturer:

Science Technology(Hangzhou) INC.

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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

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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 choosed 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 word.

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 μ L/channel)
Flow Rate Range	0.001 mL/min-10.000 mL/min (increment 0.001 mL/min)		
Flow Rate Accuracy	$\pm 0.2\%$		
Flow Rate Precision	$\leq 0.1\%$ (JJG) $\leq 0.06\%$ RSD (ASTM)		
Max Pressure	9000 psi		
Pressure Pulsation	$\leq 1\%$ or < 10 psi		
Gradient Accuracy	None	$\pm 0.5\%$	
Gradient Precision		$\pm 0.1\%$	

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 μ L pick-up = (loop volume - 3 $\times$ needle volume) / 2
Sample Volume	2 $\times$ 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 (15,000 psi sampling valve is optional)

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Cross Contamination	< 0.005%
Linearity	0.9999
Pressure Limit	6,000 psi (15,000 psi 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℃
Temperature Accuracy	±1.0 ℃
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-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

Manufacturer:

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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

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Surwit LC-10Tvp Prep pump



Specifications:

LC-10Tvp Prep-100 Liquid Pump

Infusion way	Series dual-plunger pump	Flow Adjust	0.1 ml/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

LC-10Tvp Prep-200 Liquid Pump

Infusion way	Series dual-plunger pump	Flow Adjust	0.1 ml/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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Surwit LC-10Tvp Prep pump



Specifications:

LC-10Tvp Prep-300 Liquid Pump

Infusion way	Series dual-plunger pump	Flow Adjust	0.1ml/min
Flow Rates	0.5 ~ 300 ml/min	Flow Accuracy	< 5%
Pressure	0 – 15 Mpa (10ml/min)	Flow Repeatability	< 3% RSD
Dimensions	485 x 400 x 200, (mm)	Weight.	27.5 kg

LC-10Tvp Prep-500 Liquid Pump

Infusion way	Series dual-plunger pump	Flow Adjust	0.1ml/min
Flow Rates	1 ~ 500 ml/min	Flow Accuracy	< 5%
Pressure	0 – 7 Mpa	Flow Repeatability	< 3% RSD
Dimensions	485 x 400 x 200, (mm)	Weight.	30 kg

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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

Manufacturer:

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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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STI 501 PREP HPLC SYSTEM

Overview:

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.



Specifications:

Prep pump

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

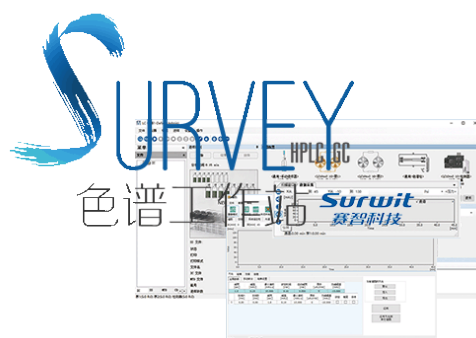
UV-VIS Detector

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 $\leq 0.1\%$
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Dimensions	160H x 260W x 350 D, (mm)
Weight.	6kg
Minimum detection concentration	$\leq 1 \times 10^{-8}$ g/mL (Naphthalene/methanol solution)

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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 II 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.

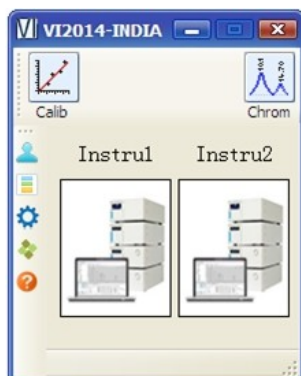
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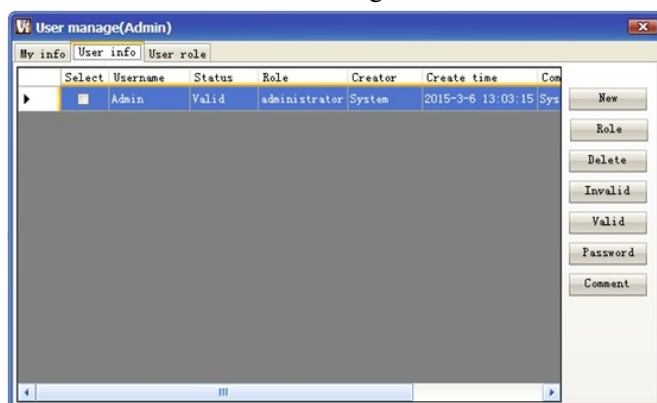
SURVEY Chromatography Data System

Work screenshots:

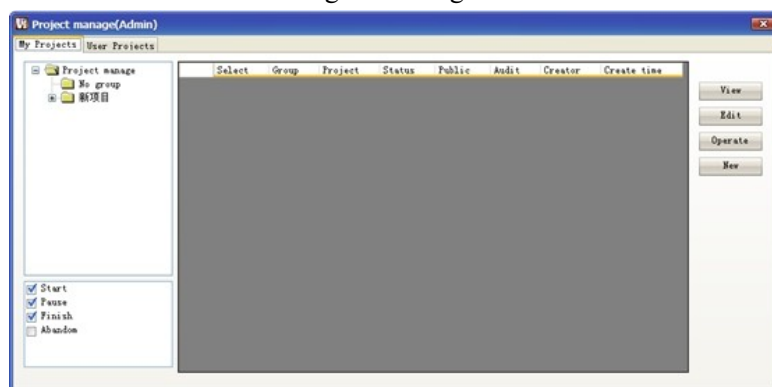
1. Main window



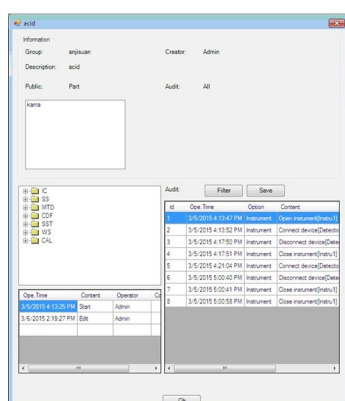
2. User management



3. Program management



4. Audit Record



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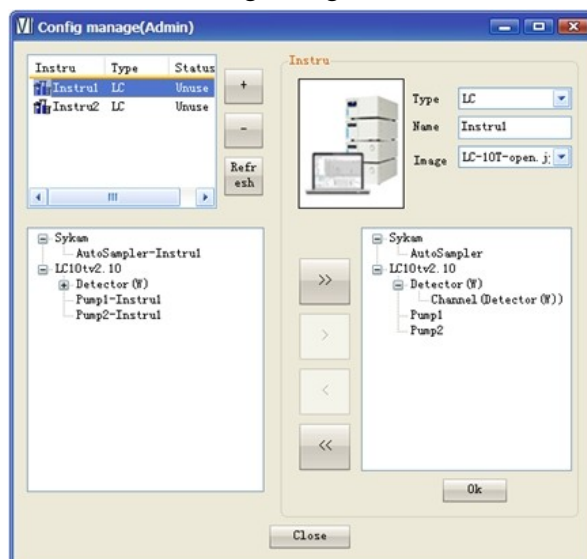
sales@hplc.com.cn

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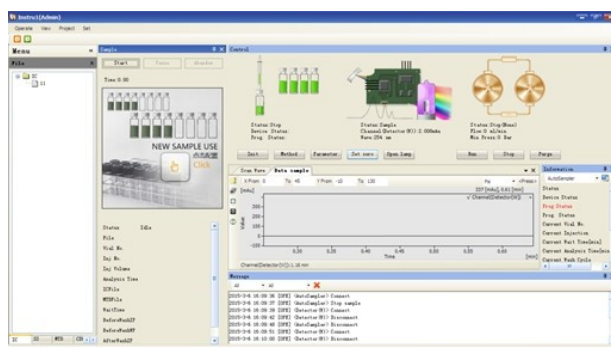
SURVEY Chromatography Data System

Work screenshots:

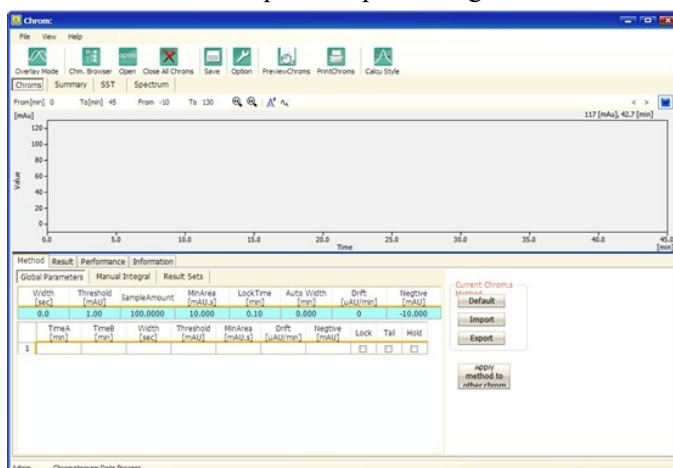
5. Config management



6. Work window



7. Spectrum processing



Manufacturer:

Science Technology(Hangzhou) INC.
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N2000 Chromatography Data System

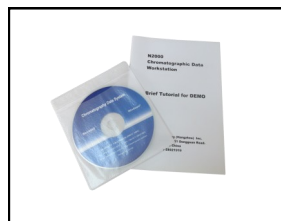
Overview:

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.



Manufacturer:

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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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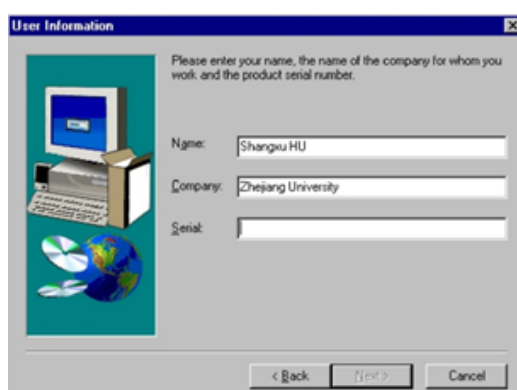
N2000 Chromatography Data System

Work screenshots:

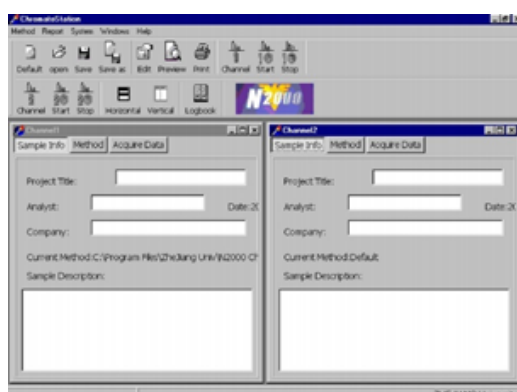
1. Software Installation



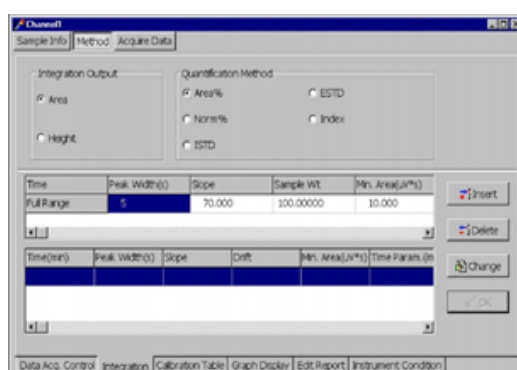
2. User information



3. Dual Channels



4. Sample Information



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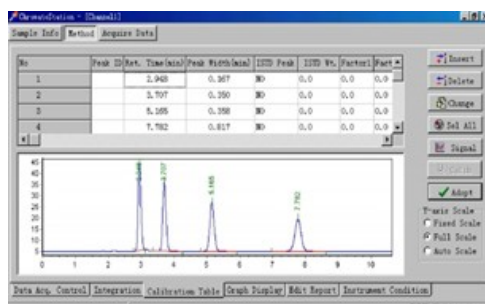
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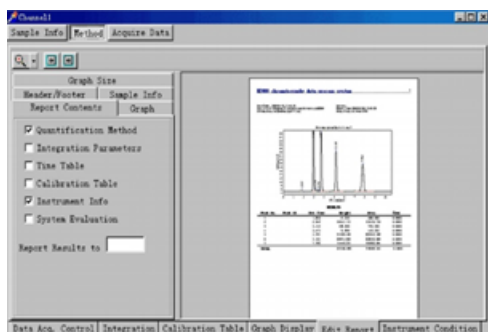
N2000 Chromatography Data System

Work screenshots:

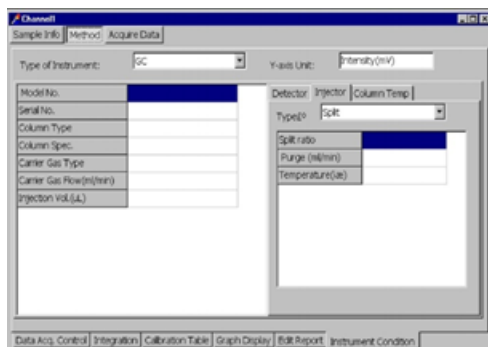
5. Edit Calibration



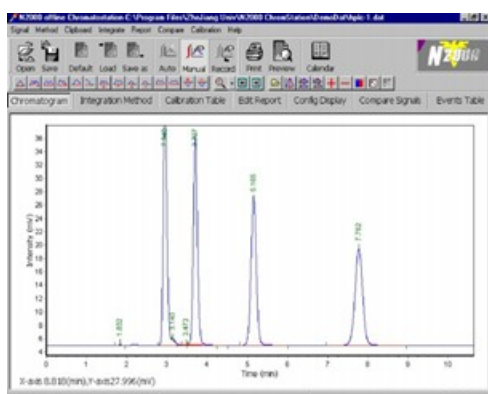
6. Experiment Report



7. Edit instrument condition



8. Acquiring Data



Manufacturer:

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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℃ ~ 85℃
Software	Spectra Pro

Manufacturer:

Science Technology(Hangzhou) INC.

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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.

Manufacturer:

Science Technology(Hangzhou) INC.

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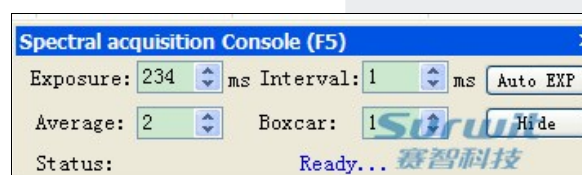
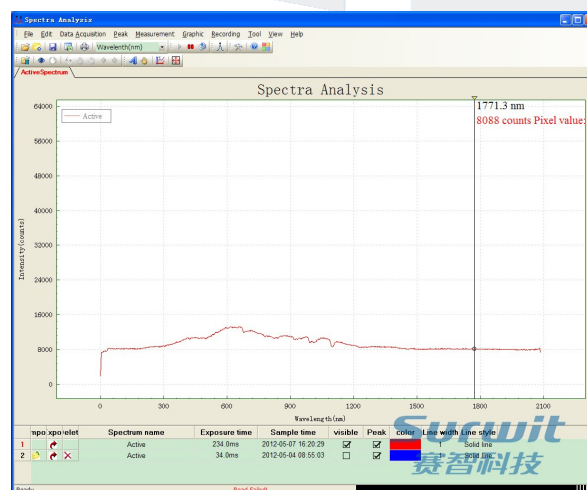
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Spectra Analysis

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.



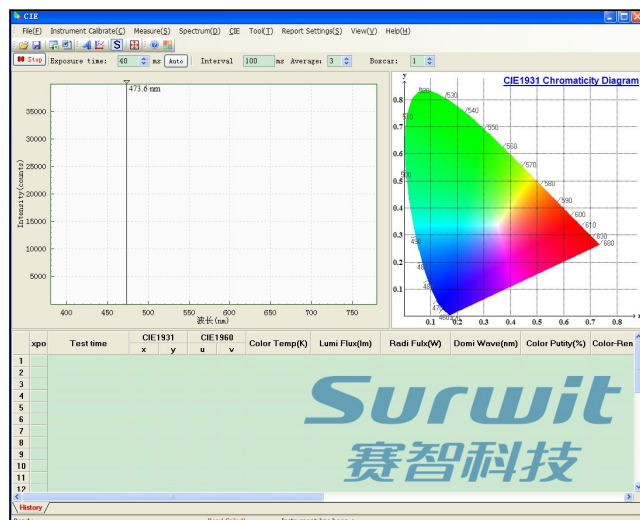
Color Analysis

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

Active		Active	
Wavelength(nm)	Intensity(counts)	Wavelength(nm)	Intensity(count)
1.00	1,921	325.12	9,161
2.00	2,539	325.52	9,131
3.00	3,659	325.92	9,102
4.00	5,483	326.33	9,136
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	9,250
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	7,560	331.13	9,235
17.00	7,585	331.53	9,234
18.00	7,610	331.93	9,235
19.00	7,609	332.33	9,228

Software can be download at

<http://www.surwit.com/yArticleInfo/104.htm>

Manufacturer:

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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



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(°C)	80°

Manufacturer:

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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: 5 μ m, spherical

Column size: Kromastar C18 4.6 $\times$ 150 or 250/5um

Pore size: 120 $\text{\AA}$

Carbon load: 17%

Endcap: fully endcapped

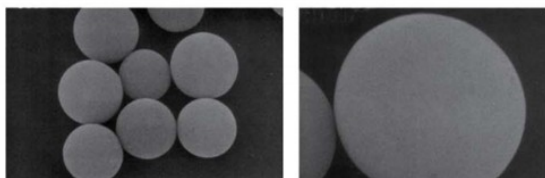
PH range: 1.5 to 10.0

Specific surface area: 320m²/g

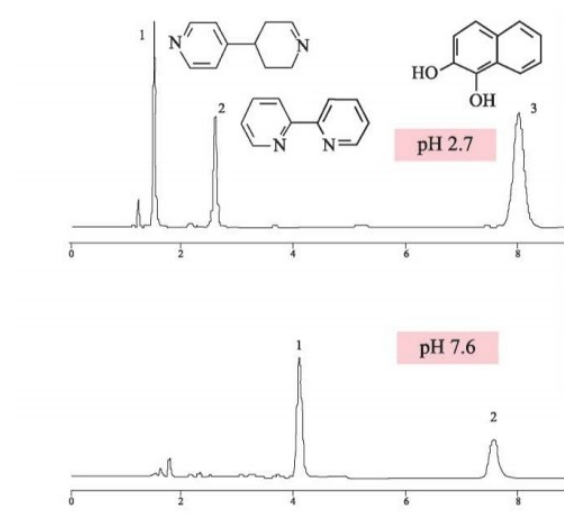
Tailing factor: 0.95-1.05

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 unique 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

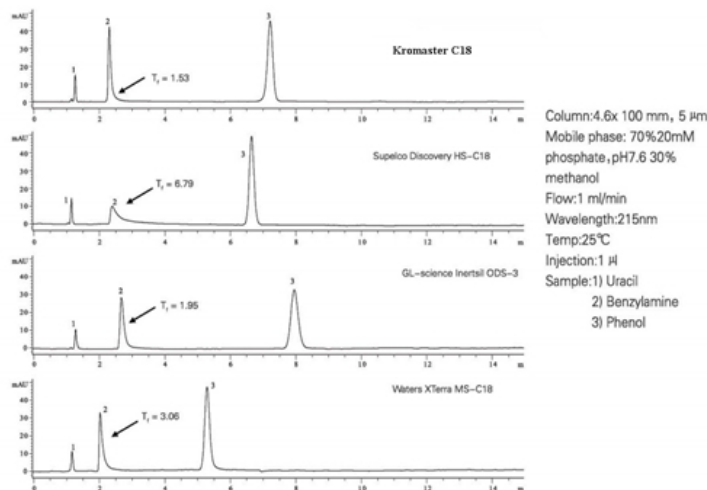
Phenomenex Luna C18

Supelcosil LC-18-DB

YMC ODS-AM

Alltima C18

GL-science Inertsil ODS-2



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D2000 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: $\text{RT}+5\sim 100^{\circ}\text{C}$



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Mobile Phase Degasser

Dg serial mobile phase degasser matches with HPLC.

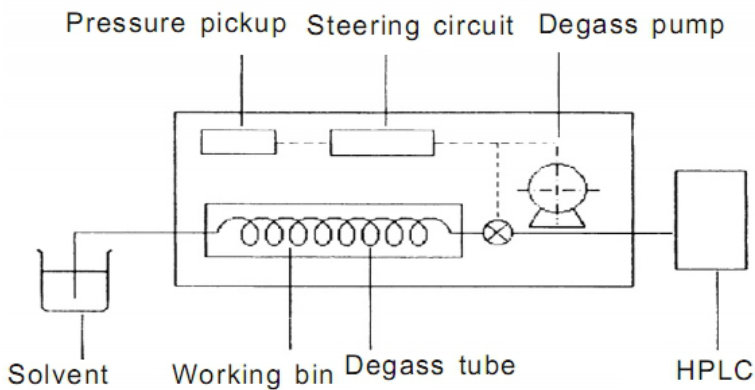
The DG serial mobile phase on-line vacuum degassing system can continuously remove dissolved gasses from the mobile phase, eliminate the instabilities of the flow phase, eliminate the instabilities of the flow phase, noisy and drifting baselines. What's more, the interference which is due to oxygen appearing in the electrochemical, fluorescence and UV detection is eliminated. The system is available in 2,3&4-channel type.



The specification

Number of channels:	2,3or4
Internal Volume/channel(ml):	15
Maximum Flow rate/channel(ml/min):	10
Maximum Pressure/channel(psig):	5
Dimensions(Lx Wx H)(mm):	278X86X155
Weight:	6
Power:	50/60HZ 220V/110V

flow rate(ml/min)	1	5
gas content(ppm)	8	8
gas content(ppm)	1.8	4



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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.

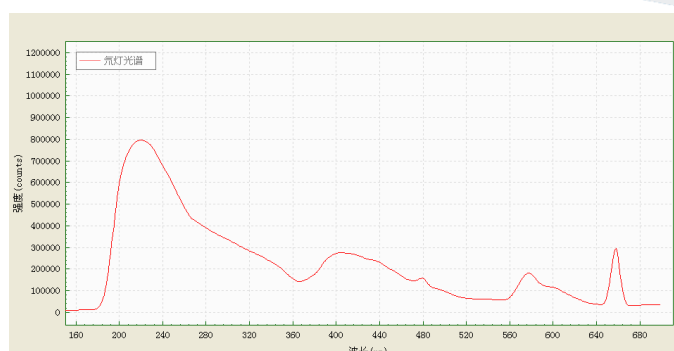


Front panel of Deuterium light source

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℃
size	200mm(L) * 180mm(W) * 80mm(H)
weight	2.0Kg
life	~2000H

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Adjustable tungsten light source H03

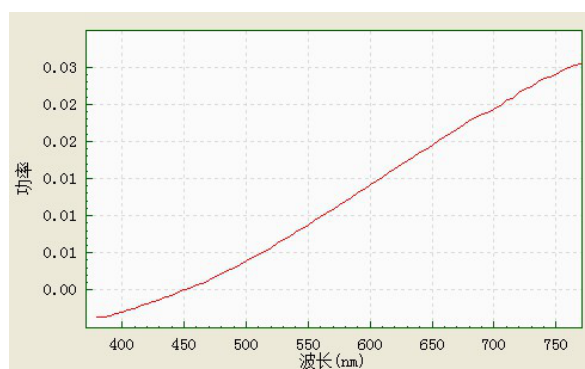
H03 adjustable tungsten light source is a fiber-coupled visible / near-infrared light, covering the wavelength range 330nm-> 2600nm. In the visible and near infrared bands using 10W or 20W tungsten lamp, using SMA905 or FC interface output energy. DC12V power supply direct power supply, strong integrity,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