P3 Single Beam UV/VISSpectrophotometer

As a part of Precision Series, P3 Single BeamUV/Vis Spectrophotometer is a user-friendlyinstrument with advanced performance. With itsstray lightless than 0.05%T, it is highly accurate and reliable. It provides several basic functions, such as photometry test, quantitation test and spectrum scanning.Optionally, It can be connected with computers through USB interface and controlled by the included EasyUV 1.0 software.

	Specifications			
Model	Specifications	P3 UV/Vis Spectrophotometer		
Optical Sy	stem	Single Beam		
Light Sour		Tungsten Lamp, Deuterium Lamp		
Detector		Silicon Photodiode		
Bandwidth	1	4nm		
	Range	190 – 1100nm		
	Accuracy	±0.5nm		
Wave-	Repeatability	≤0.2nm		
ength	Display	0.1nm		
0	Gyration speed	10000nm/min		
	Scan speed	4200nm/min		
	Range	-0.301 – 3A,0 – 200%T,0 – 9999.9C		
	Accuracy	±0.003A @ 0.5A,±0.006A @1A,±0.5%T @ 0 - 100%T		
Photo-	Repeatability	±0.0015A @ 0.5A,±0.003A @1A,±0.2%T @ 0 - 100%T		
metric	Noisy	≤0.0005A @ 0A,≤0.001A @ 1A, ≤0.002A @ 2A (500nm)		
	Stability	≤0.002A/hr(500nm,2 hours after warming up)		
Stray Ligh		≤0.05%T		
Baseline		±0.002A		
Memory		236KB(Built-in), Unlimited(USB memory stick)		
Display		5 inches color screen(480x272)		
Keypad		Resistive touch screen		
Printer		Serial printer, USB printer (in line with HP PCL3 GUI printing language) Serial port (printing), USB-A (storage and printing), USB-B (online)		
Port		Serial port (printing), USB-A (storage and printing), USB-B (online)		
	Standard	10mm 4-cell holder		
Holder	Optional	10 – 50mm 4-cell holder,10 – 100mm 4-cell holder,10mm 8-cell Automatic Holder,10 – 100mm 5-cell Automatic Holder, Micro Cell Holder,Peltier/Sipper System,Reflectance Accessories,Solid Sample Holder,Water-Jacked 1 or 4-cell holder,Test Tube Holder		
	Photometric	Yes		
	Quantitation	Yes		
Function	Spectrum	Yes		
Function	File Management	Yes		
	System Management	Yes		
	Performance Verification	Yes		
Language		6 language(English, German, French, Spanish, Portuguese, simplified Chinese		
Power		100 - 240V AC, 50/60Hz, 120W		
Dimensions		456 (W) x360 (D) x185 (H) mm		
Weight		10.7kg		

Features

Fashion

- Simple
- Elegant
- Aluminum Base

Anticorrosive Holder

- Easy
- Accurate
- Anticorrosive

ISP Interface

USB Interface

- USB A:Printer
- USB B:Save data

Lamp Room

• Lamp easy to change

USB Interface

- USB A:Printer
- USB B:Save data

Color Screen

- Friendly interface
- Built-in Method

1 . Using the 1200 I / mm holographic grating with low stray light, the optimized optical path design ensures the high accuracy of the instrument;

2. The new wavelength driving mechanism has greatly improved the wavelength accuracy and repeatability, and effectively reduced thenoisy;

3 . All aluminum die casting base and all moulded shell, make the instrument more sturdy and durable;

4 . High resolution TFT color LCD touch screen provides excellent display effect and simple operation;

5. Self-calibration system while switching on and preheating countdown;

6 . Support USB memory to upgrade firmware directly;

7 . It can connect computers through USB, control instrument by software and can enrich and expand applications by software;

8. It also supports USB universal printer and serial micro printer based on PCL3 GUI protocol;

9 . Wide sample room, suitable for 5~100 mm sample holder and other accessories;

10. Added Spectrum Scanning function, it's the first time in the same level instrument;

11. Automatic move wavelength to set position, automatic zero correction;

12. It can connect to the printer and output the measurement results directly.

Basic Function Instruction

Photometry Test

- A / T one key conversion;
- Results can be recorded, edited, deleted, savedand printed.

Quantitation Test

- Single and dual wavelength method (dual wavelengthdifference, dual wavelength ratio) to measure samples;
- 3 methods to establish standard curve (input equationcoefficient,measure 2 ~ 10 standard samples or inputstandard sample absorbance and concentration);
- 3 kinds of fitting methods (linear zero, linear, two order);
- Standard curve can be saved and invoked;
- Built-in19 concentration units and custom input;
- The measurement results can be recorded, edited, deleted, saved, and printed.

Spectrum Scanning

- The scanning speed is optional (low, medium, high);
- The scanning interval is optional (0.1, 0.2, 0.5, 1, 2, 5, 10nm);
- A / T display mode can be switched;
- Automatically find the peak;
- Point by point (peak) view;
- Coordinate adaptable and modifiable;
- Curves and data can be deleted, saved and printed.

File Management

 Files can be deleted, renamed, batch import / export, converted to .txt and .csv format.



тхт

١

0



	Method						
18.00	C=0.112*	A+0.001		Meas.:	A=A1		
	r=0.99999			WL 1:	500.0		
mg/ml				WL 2:	—		
				Unit:	mg/ml		
-2.000	~			Cali.:	Std		
	-0.050	Abs	1.950	Std qty	: 6		
0	pen	Detail	Measu	re	Cancel		

System Utility

1. system calibration (dark current, wavelength, system baseline);

2. Light source management (light source switch, timing);

3. Clock management;

4. Memory management (storage status display, formatting);

- 5. Multi language (can be switched) ;
- Wavelength accuracy; Photometric precision;
- Hetero astigmatic light; Wavelength accuracy;
- Photometric precision; Hetero astigmatic light; Noise; Noise;

6. General settings (sound display sample rack and other settings) .

Performance Verification

- Wavelength Accuracy;
- Photometric Accuracy;
- Stray light;
- Noisy;
- Dark noisy;
- Stability;
- Spectralbandwidth.

ñ	System	
Calibration	Dark current	Language
Light source	Wavelength	General options
Clock	System baseline	Restore defaults
Memory		About
	×	

5	Performance verification		
Wavelength	Measuring Wavelength	Dark noise	
accuracy	537.0		
Photometric accuracy	Measured value	Stability	
Stray light	537.1	Bandwidth	
Noise			
	Zero Measure		

Software Introduction (optional)

EasyUV 1.0 is an application software based on Windows operating system.

Software Function :

- 1.Photometric measurement;
- 2.Quantitative measurement;
- 3.Kinetics measurement;
- 4. Multi wavelength measurement;
- 5.Spectrum scanning;
- 6.DNA / protein measurement.

Through the USB interface, the user can connect with the P series UV / Vis spectrophotometer very convenient.

At the same time, the application range, data analysis and file management function of P series instruments are greatly expanded, so that your analysis and measurement work becomes more relaxed and efficient.

Characteristics

- 1. Photometric measurement: one key switch A / T / E;
- 2. Quantitative measurement: establish standard curve;
- 3. Spectrum scanning: coordinate adaptive;
- 4. File management: data preservation, editable file name;
- 5. Performance verification: verifiable performance specifications;
- 6. System application: Multilingual operating system;

Packing List

Part No.	SN	Description	Qty
	1	Instrument	1set
	2	User's manual	1pc
	3	Cuvette quartz, 10mm	2pcs
P3	4	Cuvette glass,10mm	4pcs
	5	Fuse(3.15A/250V)	2pcs
	6	Power cable(national standard)	1pc
	7	Dustcover	1pc
MEAS:	456 (W) x360 (D) x185 (H) mm		
N.W.:	10.7KGS		
G.W.:	13.7KGS		