

Spectrophotometers Variety&Reliability

PEAK Instruments Inc.



VVC continuously absorb new ideas, promote product quality and improve our service in accordance with the concept of Innovation, quality and service. We have steady growth and good reputation in the markets of more than 20 countries, like USA, Mexico, Argentina, India, Thailand, UAE, Turkey, South Africa and Russia.



- Our Promise
 Answer customers and provide solutions within 24 hours.
- Our Mission Provide high quality products and services.
- Our Vision
 To be a well-known brand for analytical instruments.

PEAK Instruments Inc. looks forward to cooperating with you.

E-1000 Series



Introduction

- Smooth appearance design
- Ingenious color assortment
- Blue backlit LCD screen
- Oval buttons
- Easy parameter setting and microprocessor make the operation more convenient

- 70*40 mm blue backlit LCD screen can show complete parameters like T,A,C,K.
- Calibrate 0%A and 100%T automatically.
- Large sample compartment can hold various cells from 5mm to 100mm and meet different test requirements.
- RS232 output port, optional printer and professional analysis software UV-PRO1.0 with the functions of quantitative analysis and dynamic measurement.
- Automatic lamp switches and manual wavelength setting.
- Save and read out the test data and values of K and B.

E-1000 Series







MODEL	E-1000V	E-1000UV			
Standard Accessories	Lamp, Cuvette Holder and 10mm Glass Cuvettes	Lamp, Cuvette Holder and 10mm Quartz Cuvettes			
Display	70*40mm blue	e backlit LCD			
Wavelength Range	320 - 1020nm	190 - 1020nm			
Slit Width	4r	ım			
Wavelength Accuracy	±2	nm			
Wavelength Repeatability	≤1nm				
Photometric Accuracy	0.5%T				
Photometric Repeatability	0.2%T				
Stray Light	≤0.15%T@360nm				
Stability	0.002A@500nm				
Output Port	RS	232			
Light Source	Tungsten Halogen Lamp Tungsten Halogen/Deuterium				
Power Requirements	110-220V, 50-60Hz				
Shipping Dimensions And Weight	530*460*320mm, 9 kg				

C-7000 Series



Introduction

Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua,*.txt,*.bmp). Users
 can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST
 USB port and standard USB interface.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type tungsten-halogen and deuterium lamps which can work up to 2000 hours, can switch the lamps according to test needs and record its working time automatically. Socket type lamps make the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- · Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software can realize scanning function.

C-7000 Series

MODEL	C-7000V	C-7000UV			
Standard Accessories	Lamp, Cuvette Holder and 10mm Glass Cuvettes	Lamp, Cuvette Holder and 10mm Quartz Cuvettes			
Display	7-inch TF	T screen			
Wavelength Range	320 - 1100nm	190 - 1100nm			
Slit Width	2nm	2nm			
Wavelength Accuracy	±0.3nm	±0.3nm			
Wavelength Repeatability	≤0.2nm				
Photometric Accuracy	0.3%T (0-100%T), ±0.002	A(0-0.5A), ±0.004A(0.5-1A)			
Photometric Repeatability	≤0.15%T (0-100%T), 0.00°	1A(0-0.5A), 0.002A(0.5-1A)			
Stray Light	≤0.05%T@22	0 nm, 360nm			
Stability	±0.001 A/h@500nm				
Baseline Flatness	±0.0015A ±0.001A				
Noise	±0.000	±0.0005A			
Working Mode	T,A,C,E				
Wavelength Setting	Automatic				
Photometric Range	0-200%T, -0.3 - 3A				
Detector	Solid Silicon Photodiode				
Software	Optional with sca	nning function			
Printer	Optional				
Keypad	Silicone Buttons				
Data Port	USB				
Light Source	Tungsten Halogen Lamp Tungsten Halogen/Deuterium L				
Power Requirements	110-220V	, 50-60Hz			
Humidity Range	Less than 85%				
Shipping Dimensions and Weight	770*630*340mm, 27kg				

C-7100/7200 Series



Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons. The instrument can show various scanning curves and charts for users to complete various tests without computers.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua,*.txt,*.bmp). Users
 can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Advanced hardware and 32-bit Cortex_M3 processor with the clock speed 120MHz. The equipment can store 5000 pieces of data and 500 curves.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type tungsten-halogen and deuterium lamps which can work up to 2000 hours, can switch the lamps according to test needs and record its working time automatically. Socket type lamps make the replacement much easier.
- · Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- Powerful PC software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST
 USB port and standard USB interface.

C-7100/7200 Series

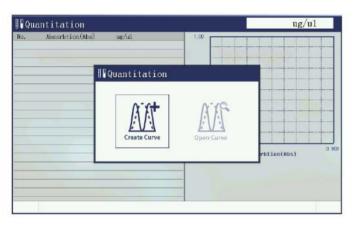
MODEL	C-7100	C-7100S	C-7100A	C-7200	C-7200S	C-7200PC	C-7200A	
Standard Accessories	Lamps, Cuv	ette Holder a	nd 4 PCS of	10mm Glass	Cuvette and	2 PCS of 10mm	Quartz Cuvettes	
Display	7 inch TFT					No Screen	7 inch TFT	
Keyboard Control		Sil	icone Butto	ons		No Buttons	Silicone Buttons	
0.5-10-1-	Single Beam Dou			ıble Beam				
Optical System		Holographic grating, 1200 lines/mm						
Slit Width	2nm	1nm	0.5,1,2, 4,5nm	2nm	1nm	2nm, 1nm	0.5,1,2, 4,5nm	
Wavelength Range				190 - 11	00nm			
Wavelength Accuracy				±0.3r	nm			
Wavelength Repeatability		≤0.1nm						
Photometric Accuracy	0.2%T (0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)							
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A (0.5-1A)							
Stray Light	≤0.03%T@220nm, 360nm							
Stability	±0.001A/h@500nm							
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C(0-9999F)							
Baseline Flatness		±0.0015A (200-1000nm)						
Noise		0.0003A@500nm						
Working Mode		T,A,C,E						
Wavelength Setting	Automatic							
Scanning Speed	High, Medium and Low							
Detector	Solid Silicon Photodiode							
Light Source	Tungsten Halogen/Deuterium Lamp							
Data Output	RS232C Serial, USB Drive, USB HOST							
Processor	Cortex_M3, 120Mhz							
Power Requirements	AC 110-220V 50-60Hz							
Shipping Dimensions and Weight		'kg	770*63 30kg	0*340mm	27kg		880*690*530mm	

UI Design (Silicone Buttons)



Absorbency and transmittance test

Photometry



Quantitative Measurement

To test sample solution concentration, you can choose different methods like coefficient, standard curve, linearity, linear zero crossing and quadratic. Operators can choose single, double and tri-wavelength and change the coefficients of double and tri-wavelength. Advanced arithmetic makes curvilinear regression more precise and test data more accurate.



Kinetics Measurement(Time Scanning)

To test the sample chemical reaction process by fixed time scanning the sample solution with fixed wavelength.

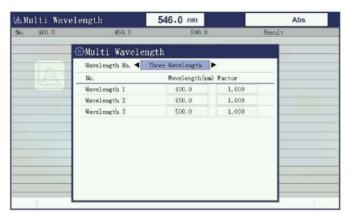
The equipment can calculate its changing rate after entering the corresponding parameters.

UI Design (Silicone Buttons)



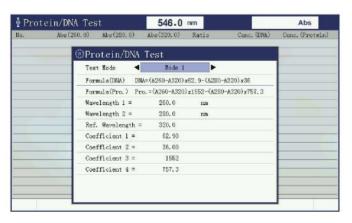
To test sample solution absorbency peak, can scan the sample characteristic curve of any wavelength range between 190 and 1100nm. And do the chart overlay and arithmetic.

Wavelength Scanning(Qualitative Test)



It is much more convenient for users to test the absorbency or do the arithmetic in case of several wavelengths for the same sample solution, which is much simpler than single wavelength testing.

Multi Wavelength Measurement



It is a special function for specific users and make the operation easier.

DNA/Protein Measurement



Introduction

International advanced xenon light (Hamamatsu) source makes the instrument more stable and reliable. Three years warranty. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

- 7 inch TFT screen and long life, more comfortable and sensitive silicone buttons or capacitive touch screen.
 The instrument can show various scanning curves and charts for users to complete various tests without computers.
- Support USB storage and different data formats such as Excel, txt and photos(*.csv, *.qua,*.txt,*.bmp)
 Users can output test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Advanced hardware and 32-bit Cortex_M3 processor with the clock speed 120MHz. The equipment can store 5000 pieces of data and 500 curves.
- High-efficiency holographic grating of 1200 lines/mm and ultra-low stray light.
- The equipment has Long-life socket type xenon lamp which can work up to 5000 hours. Socket type lamp makes the replacement much easier.
- Excellent silicon photodiode can guarantee the equipment is highly sensitive and stable.
- Huge sample chamber and various accessories can meet all kinds of needs.
- Can be connected to printer directly and output test charts and data.
- · Powerful PC software.
- Strong extended capability: Standard 8GB memory can store huge test data and equipped with RS232, HOST
 USB port and standard USB interface.

X-8200

MODEL	X-8200	X-8200S	X-8200A	X-8200T	X-8200TS	X-8200TA		
Standard Accessories	Lamps, Cuvette	e Holder and 4 P	CS of 10mm Gla	ss Cuvette and	2 PCS of 10mm	Quartz Cuvettes		
Display		7 inch TFT			7 inch TFT			
Keyboard Control	5	Silicone Buttons Touch Screen						
		Double Beam						
Optical System		Holographic grating, 1200 lines/mm						
Slit Width	2nm	1nm	0.5,1,2, 4,5nm	2nm	1nm	0.5,1,2, 4,5nm		
Wavelength Range			190 - 1	1100nm				
Wavelength Accuracy			±1r	nm				
Wavelength Repeatability		≤0.5nm						
Photometric Accuracy	0.2%T (0-100%T) , ±0.002A(0-0.5A) , ±0.004A(0.5-1A)							
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A (0.5-1A)							
Stray Light	≤0.03%T@220nm, 360nm							
Stability	±0.001A/h@500nm							
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C (0-9999F)							
Baseline Flatness		±0.0015A (200-1000nm)						
Noise			0.0003	A@500nm				
Working Mode			T,A	A,C,E				
Wavelength Setting			Aut	omatic				
Scanning Speed	High, Medium and Low							
Detector	Solid Silicon Photodiode							
Light Source	Xenon Lamp							
Data Output	RS232C Serial, USB Drive, USB HOST							
Processor	Cortex_M3, 120Mhz							
Power Requirements			AC 110-22	0V 50-60Hz	•			
Shipping Dimensions and Weight		0*340mm 7kg	880*690*530mm, 45kg)*340mm /kg	880*690*530mm, 45kg		

T-9100/9200

Introduction

Excellent optical system, high level mechanical system, advanced circuit control system, rigorous production process, friendly and intuitive software interface, good technical specifications, stable and reliable performance can meet the analysis requirements from high level and professional customers.



Main Features

Appearance and internal structure

Modern and elegant appearance, extendable design, separate structure design for optical and circuit system can efficiently avoid the loss of photometric energy.

Convenient and intuitive operation interface

This series has 7-inch high resolution colored capacitive touch screen and newly developed UV-SUPER2.0 software with strong functions, which make the operation simple and easy.

Excellent performance and stability

Totally enclosed monochromator and optical mirror coated with SiO2 guarantee the optical components are not influenced by gas and environment.

- Philips and Hamamatsu lamps.
- 2 Newly improved screw pole drive structure makes good wavelength repeatability and high wavelength accuracy.
- 3 Totally new design, superior materials and rigorous production process.

Advanced photoelectric test system

- 1 32 bit ARM11 microcontroller with clock speed up to 533MHz.
- 2 20 bit analog digital device specialized for photoelectric data collection and processing from BB company.
- 3 Support internal huge data storage, mouse operation and big SD card memory.

Simple and convenient maintenance

- Socket type lamps make the optical adjustment not necessary and maintenance much easier.
- 2 Separated Optical and circuit system has no cross influence and make the instrument more reliable.

T-9100/9200

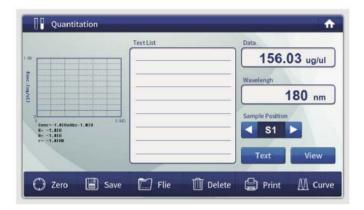
MODEL	T-9100	T-9200	T-9200S	T-9200A				
Standard Accessories	Lamps, Cuvette Holder	and 4 PCS of 10mm Gla	ss Cuvette and 2 PCS o	f 10mm Quartz Cuvettes				
Display	7 i	nch TFT colored ca	pacitive touch scree	en				
Wavelength Range		190 - 1100nm						
Optical System	Single Beam	Single Beam Double Beam						
Spectral Bandwidth	2nm	2nm	1nm	0.5,1,2,4,5nm				
Wavelength Accuracy	±0.5nm	±0.5nm	±0.3nm	±0.3nm				
Wavelength Repeatability	≤0.2nm	≤0.2nm	≤0.1nm	≤0.1nm				
Photometric Accuracy	0.2%T (0	-100%T), ±0.002A(0	D-0.5A), ±0.004A(0.	5-1A)				
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)							
Scanning Speed	High, Medium and Low							
Stray Light	≤0.05%T@220nm,360nm							
Baseline Flatness	±0.003A	±0.002A	±0.001A	±0.001A				
Drift	0.003A/30min @500nm	0.002A/30min @500nm	0.001A/30min @500nm	0.001A/30min @500nm				
Noise		0.0005A@						
Working Mode	T,A,C,E							
Wavelength Setting	Automatic							
Detector	Solid Silicon Photodiode							
Light Source	Tungsten Halogen/Deuterium Lamp							
Output Port	USB HOST, USB DRIVE, RS232, SD Card							
Power Requirements	AC 110-220V 50-60Hz							
Humidity Range		Less Tha	an 85%					
Shipping Dimensions and Weight	770*630*340mm, 27kg 880*690*530mm 45kg							

UI Design (Touch Screen)



Absorbency and transmittance test

Photometry



Quantitative Measurement

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Wavelength Scanning(Qualitative Test)



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Multi Wavelength Measurement



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DNA/Protein Measurement

Accessories





Manual 4-position cell holder (standard for single beam)

Single-hole cuvette holder (standard for double beam)





Automatic 8-position round cell holder

Automatic long optical path 5-postion cell holder



Manual 4-position film holder



Single hole film holder



Single hole long optical path holder



Tube rack



Adjustable XY micro cell holder

Comparison Table

	UV/Vis.	Optical System	Display	Slit Width	Wavelength Accuracy	Wavelength Repeatabiltiy	Stray Light	Ligh Source	Page														
E-1000V	Vis.	Single 70*40mm LCD		4 nm	4 nm ±2 nm	≤1 nm	≤0.15%T@360nm	Tungsten Halogen Lamp	1/2														
E-1000U	UV	Olligie	70 40Hill LOD	. 4.11011	±2 (III)	2111111	≥0.13%1@300IIII	Tungsten Halogen /Deuterium Lamp	1/2														
C-7000V	Vis.							Tungsten Halogen Lamp	2/4														
C-7000UV		Single	gle	2 nm			≤0.05%T @220nm,360nm		3/4														
C-7100																							
C-7100S				1 nm																			
C-7100A	UV		7 inch FTF	0.5,1,2,4,5nm	±0.3 nm	≤0.1 nm		Tungsten Halogen	5/8														
C-7200		UV	7 IIICH I II	2 nm	10.5 1111	20.111111		/Deuterium Lamp	3/6														
C-7200S				1 nm			≤0.03%T																
C-7200A		Double	ouble	0.5,1,2,4,5nm			@220nm,360nm																
C-7200PC				1, 2nm																			
X-8200				2 nm																			
X-8200S			7 inch FTF	inch FTF 1 nm																			
X-8200A														7_10754444 14 1075				0.5,1,2,4,5nm	annual resources of the contract		≤0.03%T		0.110
X-8200T	UV	Double		2 nm	±0.3 nm	≤0.1 nm	@220nm,360nm	Xenon Lamp	9/10														
X-8200TS		Touch	Touch Screen	1 nm																			
X-8200TA				0.5,1,2,4,5nm																			
T-9100		Single		2 nm	±0.5 nm	≤0.2 nm																	
T-9200	UV		Touch Screen	, , , , , , , , , , , , , , , , , , ,	±0.5 IIII	20.2 IIII	≤0.05%T @220nm,360nm	Tungsten Halogen /Deuterium Lamp	11/14														
T-9200S				1 nm	10.2	-0.4																	
T-9200A				0.5,1,2,4,5nm	±0.3 nm	≤0.1 nm																	

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