

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 85 countries, like USA, Canada, Mexico, Italy, Spain, Poland, Turkey, Russia, Argentina, Brazil, Chile, Peru, Ecuador, India, Indonesia, Pakistan, Korea, Saudi Arabia and South Africa.



- 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

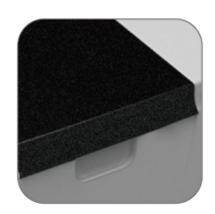
- Smooth appearance design
- Ingenious color assortment
- White backlit LCD screen
- Oval buttons
- Easy parameter setting and microprocessor make the operation more convenient

- 70*40 mm 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 and professional analysis software UV-PRO1.0 with the functions of quantitative analysis.
- 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				
Display	70*40m	m backlit LCD			
Wavelength Range	320 - 1020nm 190 - 1020nm				
Slit Width		4nm			
Wavelength Accuracy		±2nm			
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	ı	RS232			
Light Source	Tungsten Halogen Lamp Tungsten Halogen/Deuterium				
Power Requirements	110-220V, 50-60Hz				
Photometric Range	0-200%T, -0.3-3A,0-9999C(0-9999F)				
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 image (PC software). Users can output
 test data to flash memory, open and edit them on computers directly without any auxiliary software.
- Standard RS232,USB(A) and USB(B) port.
- High-efficiency holographic grating of 1200 lines/mm and low stray light.
- The equipment has long-life socket type tungsten-halogen and deuterium lamps, 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 (optional) can realize scanning function.

C-7000 Series

MODEL	C-7000V	C-7000UV			
Display	7-inch TF	T screen			
Wavelength Range	320 - 1100nm	190 - 1100nm			
Spectral Bandwidth	2nm	2nm			
Wavelength Accuracy	±0.3nm	±0.3nm			
Wavelength Repeatability	≤0.2	?nm			
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@220	0 nm, 360nm			
Stability	±0.002 A/h@	@500nm			
Baseline Flatness	±0.002A ±0.002A				
Noise	±0.0005A				
Working Mode	T,A,C,E				
Wavelength Setting	Automatic				
Photometric Range	0-200%T, -0.3 - 3A, 0-9999C(0-9999F)				
Detector	Solid Silicon Photodiode				
Software	Optional with extended functions of	scanning and DNA/protein tests			
Printer	Option	nal			
Keypad	Silicone Buttons				
Data Port	RS232, USB(A),USB(B)				
Light Source	Tungsten Halogen Lamp Tungsten Halogen/Deuterium				
Power Requirements	110-220V, 50-60Hz				
Humidity Range	Less than 85%				
Shipping Dimensions and Weight	750*630*410mm, 21kg				

C-7100/7200 Series



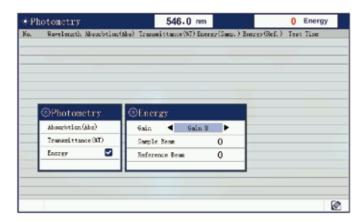
Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

- 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 image (PC software). 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 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 (optional).
- Standard RS232,USB(A) and USB(B) port.

C-7100/7200 Series

MODEL	C-7100	C-7100S	C-7100A	C-7200	C-7200S	C-7200A
Display	7 inch TFT					7 inch TFT
Keyboard Control		Silicone Buttons				
	Single Beam			Buttons Double Beam		
Optical System	Holographic grating, 1200 lines/mm					
Slit Width	2nm 1nm 0.5,1,2, 2nm 1nm					0.5,1,2, 4nm
Wavelength Range			190 - 1	1100nm		
Wavelength Accuracy			±0.	3nm		
Wavelength Repeatability			≤0.:	2nm		
Photometric Accuracy	0.	2%T (0-100%	6T), ±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	±0.002A/h@500nm					
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C(0-9999F)					
Baseline Flatness	±0.002A (200-1000nm)					
Noise	0.0003A@500nm					
Working Mode	T,A,C,E					
Wavelength Setting	Automatic					
Scanning Speed	Low, Medium, High (up to 3000nm/min)					
Detector	Solid Silicon Photodiode					
Light Source	Tungsten Halogen/Deuterium Lamp					
Data Output	RS232, USB(A),USB(B)					
Processor	Cortex_M3, 120Mhz					
Power Requirements	AC 110-220V 50-60Hz					
Shipping Dimensions and Weight	790*660*370mm 940*740*510n 28kg 52kg					940*740*510mm 52kg

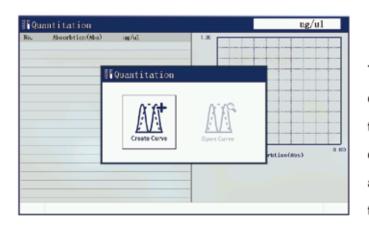
UI Design (Silicone Buttons)



There are three test modes.

Absorbance, transmittance and energy.

Photometry



Quantitative Measurement

To test sample solution concentration, you can choose different methods like coefficient, standard curve, linearity, linearity through zero and quadratic. Up to 15 standard samples can be used to create a curve. Advanced arithmetic makes curvilinear regression more precise and test data more accurate.



Kinetics Measurement(Time Scanning)

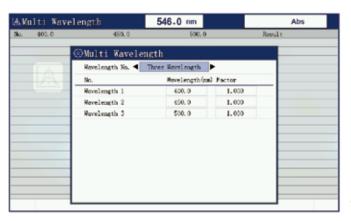
To test the sample chemical reaction process by fixed time scanning the sample solution with fixed wavelength. The equipment can calculate its changing rate after entering the corresponding parameters.

UI Design (Silicone Buttons)



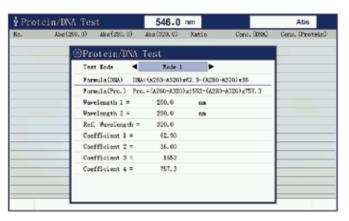
To test sample solution absorbance peak, can scan the sample characteristic curve of any wavelength range between 190 and 1100nm. You can look up the peak value on the standalone device.

Wavelength Scanning(Qualitative Test)



It is much more convenient for users to test the absorbance of several wavelengths for the same sample solution, which is much simpler than single wavelength testing.

Multi Wavelength Measurement



There are two test modes and formulas based on absorbance ratio 260nm/280nm or 230nm with substracted absorbance at 320nm.

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 image(PC software). 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 low stray light.
- The equipment has long-life socket type xenon lamp which can work up to 5 years. 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 (optional).
- Standard RS232,USB(A) and USB(B) port.

X-8200

MODEL	X-8200	X-8200S	X-8200A	X-8200T	X-8200TS	X-8200TA	
Display	7 inch TFT				7 inch TFT		
Keyboard Control	Silicone Buttons Touch Screen					n	
Outland Outland	Double Beam						
Optical System	Holographic grating, 1200 lines/mm						
Spectral Bandwidth	2nm 1nm 0.5,1, 2nm 1nm 0.5,1, 2,4nm						
Wavelength Range			190 - 1	100nm			
Wavelength Accuracy			±0.	6nm			
Wavelength Repeatability			≤0.	2nm			
Photometric Accuracy		0.3%T (0-100	%T) , ±0.005	A(0-0.5A) , :	±0.01A(0.5-1	A)	
Photometric Repeatability	≤0.2%T (0-100%T), 0.003A(0-0.5A), 0.005A (0.5-1A)						
Stray Light	≤0.1%T@220nm, 360nm						
Stability	±0.002A/h@500nm						
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C (0-9999F)						
Baseline Flatness	±0.002A (200-1000nm)						
Noise	0.002A@500nm						
Working Mode	T,A,C,E						
Wavelength Setting	Automatic						
Scanning Speed	Low, Medium, High (up to 3000nm/min)						
Detector	Solid Silicon Photodiode						
Light Source	Xenon Lamp						
Data Output	RS232, USB(A),USB(B)						
Processor	Cortex_M3, 120Mhz						
Power Requirements	AC 110-220V 50-60Hz						
Shipping Dimensions and Weight	790*660*370mm 940*740*510mm 790*660*370mm 940*740*510mm 28kg 52kg 28kg 52kg						

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 color capacitive touch screen and newly developed UV-SUPER2.0 software (optional) 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 environment.

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

Advanced photoelectric test system

- 32 bit ARM11 microcontroller with clock speed up to 533MHz.
- 20 bit analog digital device specialized for photoelectric data collection and processing from BB company.
- Support internal data storage, there are standard RS232, USB(A) and USB(B) port.

Simple and convenient maintenance

- Socket type lamps make the optical adjustment not necessary and maintenance much easier.
- 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			
Display	7 inch TFT color capacitive touch screen						
Wavelength Range	190 - 1100nm						
Optical System	Single Beam Double Beam						
Spectral Bandwidth	2nm	2nm	1nm	0.5,1,2,4nm			
Wavelength Accuracy	±0.3nm	±0.3nm	±0.3nm	±0.3nm			
Wavelength Repeatability	≤0.2nm	≤0.2nm	≤0.2nm	≤0.2nm			
Photometric Range	С)-200%T, -0.3-3.0A,	0-9999C (0-9999F))			
Photometric Accuracy	0.2%T (0	-100%T), ±0.002A(0	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)						
Scanning Speed	Low, Medium, High (up to 3000nm/min)						
Stray Light	≤0.05%T@220nm,360nm						
Baseline Flatness	±0.003A	±0.002A	±0.002A	±0.002A			
Drift	0.003A/30min @500nm	0.002A/30min @500nm	0.002A/30min @500nm	0.002A/30min @500nm			
Noise		0.0003A@	20500nm				
Working Mode		T,A,0	C,E				
Wavelength Setting	Automatic						
Detector	Solid Silicon Photodiode						
Light Source	Tungsten Halogen/Deuterium Lamp						
Output Port	RS232, USB(A),USB(B)						
Power Requirements	AC 110-220V 50-60Hz						
Humidity Range	Less Than 85%						
Shipping Dimensions and Weight	790*660*370mm, 28kg 940*740*510mm 52kg						

UI Design (Touch Screen)



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Absorbance, transmittance and energy.

Photometry



Quantitative Measurement

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Kinetics Measurement(Time Scanning)

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UI Design (Touch Screen)



To test sample solution absorbance peak, can scan the sample characteristic curve of any wavelength range between 190 and 1100nm. You can look up the peak value on the standalone device.

Wavelength Scanning(Qualitative Test)



It is much more convenient for users to test the absorbance of several wavelengths for the same sample solution, which is much simpler than single wavelength testing.

Multi Wavelength Measurement



DNA/Protein Measurement

There are two test modes and formulas based on absorbance ratio 260nm/280nm or 230nm with substracted absorbance at 320nm.

Accessories





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

Single-hole cuvette holder (standard for double beam)



Automatic 8-position round cell holder



Manual 4-position 10cm cell holder



Manual 4-position film holder



Single hole film holder



Single hole 5cm cell path holder



Tube rack



Adjustable micro cell holder

Comparison Table

	UV/Vis.	Optical System	Display	Slit Width	Wavelength Accuracy	Wavelength Repeatabiltiy	Stray Light	Light Source	Page
E-1000V	Vis.	0:1-	70*40 0.0	4	±2 nm	<1	40.45% T.@000	Tungsten Halogen Lamp	1/2
E-1000UV	UV	Single	70*40mm LCD	4 nm	±2 nm	≤1 nm	≤0.15%T@360nm	Tungsten Halogen /Deuterium Lamp	1/2
C-7000V	Vis.							Tungsten Halogen Lamp	
C-7000UV		Single		2 nm					3/4
C-7100							≤0.05%T @220nm,360nm		
C-7100S				1 nm					
C-7100A	UV		7 inch FTF	0.5,1,2,4nm	m ±0.3 nm ≤0.2 nm			Tungsten Halogen	5/8
C-7200				2 nm	20.31111	30.2 11111		/Deuterium Lamp	3/6
C-7200S		Double		1 nm			≤0.03%T @220nm,360nm		
C-7200A				0.5,1,2,4 nm					
X-8200				2 nm					
X-8200S			7 inch FTF	1 nm					
X-8200A	UV	Daubla		0.5,1,2,4,nm	±0.6 nm	≤0.2 nm	≤0.1%T	Xenon Lamp	9/10
X-8200T	OV	Double		2 nm	20.011111	30.21111	@220nm,360nm	Xenon Lamp	3/10
X-8200TS				Touch Screen	1 nm				
X-8200TS				0.5,1,2,4,nm					
T-9100		Single		2 nm	±0.3 nm	≤0.2 nm			
T-9200	UV			2 11111	20.0 11111	20.2 11111	≤0.05%T	Tungsten Halogen	44/44
T-9200S] 00	Double	Touch Screen	1 nm	+0.3 nm	±0.3 nm ≤0.2 nm		/Deuterium Lamp	11/14
T-9200A				0.5,1,2,4,nm					

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