



NOVATEK
ANALITIK SİSTEMLER A.Ş.

Spectrophotometer

Reliability & Variety

PEAK Instruments Inc.

C COMPANY PROFILE

Our Promise

Respond to customers and provide solutions in 8 hours.

Our Mission

Provide high quality products and services.

Our Vision

To be a well-known brand for analytical instruments.

PEAK Instruments Inc is located in Houston, TX-77084, where our head office and warehouse are also located, which is a high tech enterprise integrated with R&D, production, sales and service of spectrophotometer, pH meter, conductivity meter, dissolved oxygen meter, ion meter and balances, which have wide applications in the following areas like metallurgy, pharmacy, food, health, institutes, biological chemistry, life science, petrochemical industry, quality control, environmental protection, electrochemistry and water quality analysis, etc..

We have professional teams of management, R&D, production, QC, sales and technical support, which guarantee good quality products, competitive prices and efficient service for global customers. We have CE and ISO9001 certificates. We continuously absorb new ideas and technologies to improve our products and services in accordance with the concept of innovation, quality and service.

We have steady growth and good reputation in the markets of more than 95 countries, like USA, Argentina, Italy, Germany, Spain, Russia, Korea, India, Indonesia and Egypt.

C-7100/7200 Series

Introduction

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



Main Features

- 7 inch TFT screen and long life, more comfortable and easy-to-operate 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.

Specifications

MODEL	C-7100	C-7100S	C-7100A	C-7200	C-7200S	C-7200A
Display	7 inch TFT					
Keyboard Control	Silicone Buttons					
Optical System	Single Beam			Double Beam		
	Holographic grating, 1200 lines/mm					
Slit Width	2nm	1nm	0.5,1,2,4nm	2nm	1nm	0.5,1,2,4nm
Wavelength Range	190 - 1100nm					
Wavelength Resolution	0.1nm					
Wavelength Accuracy	±0.3nm					
Wavelength Repeatability	≤0.2nm					
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	±0.002A/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 28kg					940*740*510mm 52kg

UI Design (Silicone Buttons)

Photometry

There are three test modes.
Absorbance, transmittance and energy.



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.



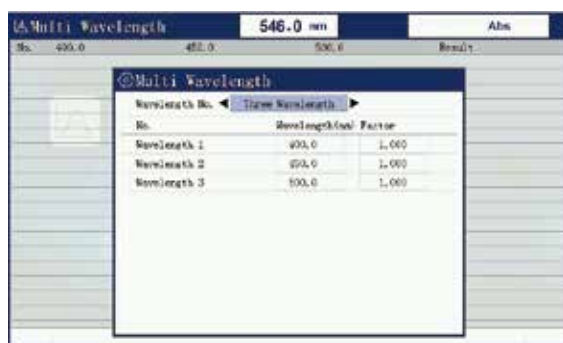
Wavelength Scanning (Qualitative Test)

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.



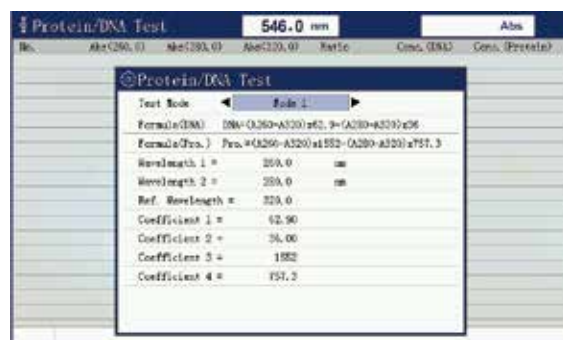
Multi Wavelength Measurement

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.

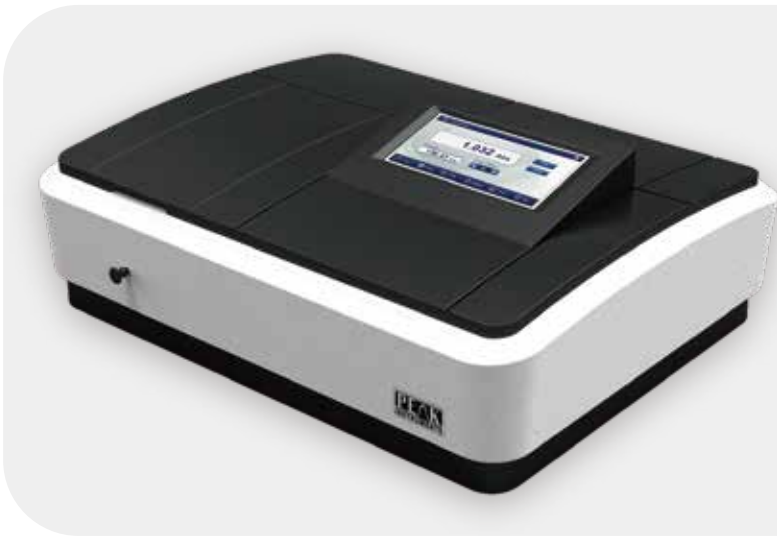


DNA/Protein Measurement

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



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.

- ① Osram and Milas 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 data storage, there are standard RS232,USB(A) and USB(B) port.

Simple and convenient maintenance

- ① 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.

Specifications

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 Resolution	0.1nm	0.1nm	0.1nm	0.1nm
Wavelength Accuracy	±0.3nm	±0.3nm	±0.3nm	±0.3nm
Wavelength Repeatability	≤0.2nm	≤0.2nm	≤0.2nm	≤0.2nm
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C (0-9999F)			
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)			
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@500nm			
Working Mode	T,A,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)

Photometry

There are three test modes.
Absorbance, transmittance and energy.



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.



Wavelength Scanning (Qualitative Test)

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.



Multi Wavelength Measurement

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.



DNA/Protein Measurement

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



X-8200

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.



Main Features

- 7 inch TFT screen and long life, more comfortable and easy-to-operate 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.

Specifications

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		
Wavelength Resolution	0.1nm			0.1nm		
Optical System	Double Beam					
	Holographic grating, 1200 lines/mm					
Spectral Bandwidth	2nm	1nm	0.5,1,2,4nm	2nm	1nm	0.5,1,2,4nm
Wavelength Range	190 - 1100nm					
Wavelength Accuracy	±0.6nm					
Wavelength Repeatability	≤0.2nm					
Photometric Accuracy	0.3%T (0-100%T) , ±0.005A(0-0.5A) , ±0.01A(0.5-1A)					
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	
	28kg		52kg		28kg	
						940*740*510mm
						52kg

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.



Main Features

- 7 inch TFT screen and long life, more comfortable and easy-to-operate 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.

Specifications

MODEL	C-7000V	C-7000UV
Display	7-inch TFT screen	
Wavelength Range	320 - 1100nm	190 - 1100nm
Spectral Bandwidth	2nm	2nm
Wavelength Resolution	0.1nm	0.1nm
Wavelength Accuracy	±0.3nm	±0.3nm
Wavelength Repeatability	≤0.2nm	
Photometric Accuracy	0.3%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	≤0.05%T@220 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	Optional	
Keypad	Silicone Buttons	
Data Port	RS232, USB(A),USB(B)	
Light Source	Tungsten Halogen Lamp	Tungsten Halogen/Deuterium Lamp
Power Requirements	110-220V, 50-60Hz	
Humidity Range	Less than 85%	
Shipping Dimensions and Weight	750*630*410mm, 21kg	

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

Main Features

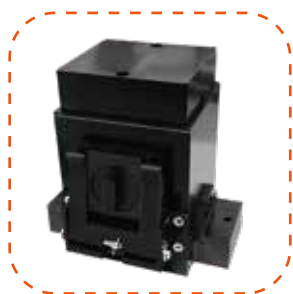
- 70*40 mm backlit LCD screen can show complete parameters like T,A,C,K.
- Calibrate 0%A and 100%T automatically.
- Large sample compartment can hold various cells from 5mm to 100mm and meet different test requirements.
- RS232 port for printer(optional) and PC software(optional and only compatible with XP system).
- Automatic lamp switches and manual wavelength setting.
- Save and view the test data.



Specifications

MODEL	E-1000V	E-1000UV
Display	70*40mm backlit LCD	
Wavelength Range	320 - 1020nm	190 - 1020nm
Spectral Bandwidth	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	RS232	
Light Source	Tungsten Halogen Lamp	Tungsten Halogen/Deuterium Lamp
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	

Accessories



Integrating Sphere



Automatic 8-position round cell holder



Tube rack



Manual 4-position film holder



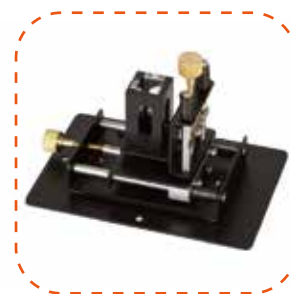
Manual 4-position 10cm cell holder



Single hole film holder



Single hole 5cm cell holder



Adjustable micro cell holder



Peltier Thermostat



Automatic Sipper

Comparison Table

	UV /Vis.	Optical System	Display	Slit Width	Wavelength Accuracy	Wavelength Repeatability	Stray Light	Light Source	Page
C-7100	UV	Single	7 inch TFT	2 nm	±0.3 nm	≤0.2 nm	≤0.05%T @220nm,360nm	Tungsten Halogen /Deuterium Lamp	1/2
C-7100S				1 nm					
C-7100A				0.5,1,2,4nm					
C-7200		Double		2 nm			≤0.03%T @220nm,360nm		
C-7200S				1 nm					
C-7200A				0.5,1,2,4 nm					
T-9100	UV	Single	Touch Screen	2 nm	±0.3 nm	≤0.2 nm	≤0.05%T @220nm,360nm	Tungsten Halogen /Deuterium Lamp	5/6
T-9200		Double		1 nm	±0.3 nm	≤0.2 nm			
T-9200S				0.5,1,2,4,nm					
T-9200A									
X-8200	UV	Double	7 inch TFT	2 nm	±0.6 nm	≤0.2 nm	≤0.1%T @220nm,360nm	Xenon Lamp	9/10
X-8200S				1 nm					
X-8200A				0.5,1,2,4,nm					
X-8200T			Touch Screen	2 nm					
X-8200TS				1 nm					
X-8200TS				0.5,1,2,4,nm					
C-7000V	Vis.	Single	7 inch TFT	2 nm	±0.3 nm	≤0.2 nm	≤0.05%T @220nm,360nm	Tungsten Halogen Lamp	11/12
C-7000UV	UV						Tungsten Halogen /Deuterium Lamp		
E-1000V	Vis.	Single	70*40mm LCD	4 nm	±2 nm	≤1 nm	≤0.15%T@360nm	Tungsten Halogen Lamp	13/14
E-1000UV	UV							Tungsten Halogen /Deuterium Lamp	



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