

LNS - Series

Nano
Spectrophotometer



Nano Spectrophotometer LNS-A10

Nano spectrophotometer with full spectrum light covers wide wavelength range of 200 to 800nm. It requires only 0.5-2.0 μ l micro-volume sample for measurement which takes place within 5 seconds. It utilizes CCD detector, Xenon flash lamp as light source which has high stability and long operating life. They are used to detect micro volume quantities of nucleic acids and other concentrated or dilute components.

Features

- 0.5 μ l-2.0 μ l micro-volume sample for direct measurement onto pedestal
- Wavelength range 200-800nm with scan capability within 5 seconds
- User friendly software
- Long life Xenon flash lamp (10 flashes up to 10 years)
- Highly concentrated samples can be used
- Direct Concentration display
- No cell or cuvettes are required



Applications

Nano spectrophotometer are used in detection of micro volume quantities of DNA/RNA and chemicals , liquids and its components in laboratory, food industries, chemistry, microbiology, medicine research and development.

Specifications

Model No	LNS-A10
Wavelength range	200-800nm
Wavelength accuracy	±1nm
Spectral Resolution	≤ 3nm (FWHM at Hg 546 nm)
Path length	0.2mm (For high concentration measurement); 1.0mm (For ordinary)
Minimum Sample size	0.5-2.0 μl
Absorbance range	0.02 - 90A (10mm equivalent)
Absorbance precision	0.003Abs
Absorbance accuracy	1% (7.332Abs at 260nm)
Light source	Xenon flash lamp
Measurement time	< 8 s
Operating Voltage	24V DC
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Detector Type	3864-element linear silicon CCD array
Software Compatibility	Windows 7, Windows XP, Windows 8
Detects nucleic acid up to	2-4500 ng/μL (dsDNA)
Operating Power Consumption	20W
Standby Power Consumption	5W
Dimension	200x250x166mm
Weight	2.6kg

Nano Spectrophotometer LNS-A2 Series

Nano Spectrophotometer with full spectrum light covers a wide wavelength range of 200 to 850nm. It requires only 0.3-2 μ l sample for measurement which takes place within 5 seconds. It uses Xenon flash lamp as light source which has high stability and long operating life.

Features

- 0.3 μ l-2.0 μ l micro-volume sample for measurement
- Wavelength range 200-850nm with scan capability within 5 seconds
- Highly concentrated samples can be used
- Long life Xenon flash lamp (10 flashes up to 10 years)
- Direct Concentration display
- User friendly software



Applications

Nano spectrophotometer are used in detection of micro volume quantities of DNA/RNA and chemicals , liquids and its components in laboratory, food industries, chemistry, microbiology, medicine research and development.

Specifications

Model No.	LNS-A20	LNS-A21
Wavelength range	200-850nm	
Wavelength accuracy	±1nm	
Spectral Resolution	2nm(FWHM at Hg 546nm)	
Path length	1mm, 2mm, 5mm, 10mm	
Minimum Sample size	0.3-2.0µl	
Absorbance range	0.002~75A (150, 300 optional, 10mm equivalent absorbance)	
Absorbance precision	0.002Abs	
Absorbance accuracy	1% (0.76 absorbance at 350nm)	
Light source	Xenon flash lamp	
Measurement time	<5s	
Detector Type	2048-element linear silicon CCD	
Detects nucleic acid up to	2~3750 ng/µL (7500,15000 optional, dsDNA)	0.4~3750 ng/µL (7500, 15000 optional, dsDNA)
Detects protein up to	0.1 ~100 mg/mL (200,400 optional, BSA)	0.01~100 mg/mL (200, 400 optional, BSA)
Dimension	210 x 170 x110 mm	240 x 210 x 110 mm
Weight	1.35 kgs	1.92 kgs

Applications

Nano Spectrophotometer LNS-B Series

Nano spectrophotometer is micro volume UV spectrophotometer which takes measurements at 230nm, 260nm, 280nm. It utilizes CCD detector, Xenon flash lamp as light source which has high stability and long operating life. They are used to detect micro volume quantities of nucleic acids and other concentrated or dilute components is specially designed to analyze the concentration of pure of nucleic acid. The data can be printed with built in printer and can be transferred via SD- RAM card or USB. It requires only minimal amount of sample for accurate measurement.

Features

- Wavelength measurement at 230nm, 260nm, 280nm
- 0.5 µl-2.0 µl micro-volume sample for direct measurement onto pedestal
- Rapid measure speed
- Touch screen & panel operations with user friendly software
- Long life Xenon flash lamp (10 flashes up to 10 years)
- Highly concentrated samples can be used
- Direct Concentration display
- No cell or cuvettes are required
- No necessary of PC



Applications

The nano spectrophotometer is used in laboratory, food industries, chemistry, microbiology, medicine research and development.

Specifications

Model No	LNS-B10	LNS-B11
Wavelength range	230 nm, 260 nm, 280 nm	
Path length	0.2 mm (For high concentration measurement); 1.0 mm (For ordinary)	1.0 mm, 0.2 mm
Minimum Sample size	0.5 ~ 2.0 μ L	0.3 ~ 2 μ L
Absorbance range	0.02 - 80A (10 mm equivalent)	0.2 - 75A (10mm equivalent absorbance)
Absorbance precision	0.003 Abs	0.002 Abs
Absorbance accuracy	1 % (7.332Abs at 260nm)	1 %
Light source	Xenon flash lamp	
Measurement time	< 8 s	< 5 s
Detects protein up to	0.1 to 100 mg/ml	0.5 to 110 mg/ml (BSA)
Sample Pedestal Material	Aluminum alloy and Quartz fiber	
Data Output	USB, SD-RAM Card	
Detects nucleic acid up to	10-4000 ng / μ L (ds DNA)	10-3750 ng / μ L (dsDNA)
Software compatibility	Win CE	
Operating Power Consumption	40 W	
Standby Power Consumption	5 W	
Operating Voltage	24 V DC	
Dimension	210 x 268 x 181 mm	240 x 220 x 140 mm
Weight	2.8kg	2.35kg

Nano Spectrophotometer LNS-C1 Series

Nano Spectrophotometer with full spectrum covers a wide wavelength range of 190 to 850nm. It requires only 0.3-2 μ l sample for measurement which takes place within 5 seconds. It uses Xenon flash lamp as light source which has high stability and long operating life. It has built in Computer, screen & four USB interface. Nano spectrophotometer connected to mouse, printer, and other wireless card devices for multiple operations.

Features

- Wavelength range 190~850nm
- Built in PC, screen & four USB interface
- High accuracy and reproducibility
- Highly concentrated samples can be used
- Direct Concentration display
- No need of dilutions and baseline corrections
- Build in software



Applications

The nano spectrophotometer is used in laboratory, food industries, chemistry, microbiology, medicine research and development.

Specifications

Model No.	LNS-C10	LNS-C11	LNS-C12	LNS-C13
Cuvette	No	Yes	Yes	Yes
Temperature			Room Temperature 42°C	4-42°C (Heating & Cooling)
Features PC	Inbuilt			
Wavelength range	190-850nm			
Wavelength accuracy	±1nm			
Wavelength resolution	2nm (FWHM at Hg 546 nm)			
Path length	1mm, 0.2mm ,0.04mm			
Path length of cuvette	1mm/2mm/5mm/10mm			
Minimum Sample size	0.3~2µl			
Precision of wavelength	±1nm			
Sample Pedestal Material	Stainless steel and quartz fiber			
The inner computer system	Win7 (64-bit operating system)/Win 8			
Screen	Color LCD Touchscreen display			
Absorbance range	0 to 500 Abs			
Absorbance precision	0.002~ 400Abs (10mm)			
Absorbance accuracy	1% (0.76 absorbance at 350nm)			
Light source	Xenon flash lamp			
Measurement time	<5s			
Detector	2048-element linear silicon CCD			
Detects nucleic acid up to	0.4~19000ng/µL (dsDNA)			
Detects protein up to	0.01~400mg/mL(BSA)			
Dimension	350x240x220mm			
Net weight	5.2 kg			



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