



# 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  $\mu$ 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  $\mu$ l- 2.0  $\mu$ l micro-volume sample for direct measurement onto pedestal
- ❑ Wavelength range 200- 800 nm 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

### Application

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	LNS-A10
Wavelength range	200- 800 nm
Wavelength accuracy	$\pm 1$ nm
Spectral Resolution	$\leq 3$ nm (FWHM at Hg 546 nm)
Path length	0.2 mm (For high concentration measurement); 1.0 mm (For ordinary)
Minimum Sample size	0.5- 2.0 $\mu$ l
Absorbance range	0.02- 90 A (10mm equivalent)
Absorbance precision	0.003 Abs

Absorbance accuracy	1 % ( 7.332 Abs at 260 nm)
Light source	Xenon flash lamp
Measurement time	< 8 s
Operating Voltage	24 V 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	20 W
Standby Power Consumption	5 W
Dimension	200 x 250 x 166 mm
Weight	2.6 kg

## Nano Spectrophotometer LNS-A20

Nano Spectrophotometer with full spectrum light covers a wide wavelength range of 200 to 850 nm. It requires only 0.3-2 μl 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 μl- 2.0 μl micro-volume sample for direct measurement onto pedestal
- ❑ Wavelength range 200- 850 nm 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

### Application

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.

## Specificationst

Model	LNS-A20
Wavelength range	200- 850 nm
Wavelength accuracy	± 1nm
Spectral resolution	2 nm (FWHM at Hg 546 nm)
Path length	1 mm, 2mm, 5mm, 10mm
Minimum Sample size	0.3- 2.0 µl
Absorbance range	0.02- 75 A (150, 300 optional, 10mm equivalent absorbance)
Absorbance precision	0.002 Abs
Absorbance accuracy	1 % ( 0.76 absorbance at 350 nm)
Light source	Xenon flash lamp
Measurement time	<5 s
Detector Type	2048-element linear silicon CCD
Detects nucleic acid up to	0.4-3750 ng/µL (7500, 15000 optional, dsDNA)
Detects proteins up to	0.01-100mg/mL (200, 400 optional, BSA)
Dimension	240×210×110 mm
Weight	1.92 kgs

## Nano Spectrophotometer LNS-B Series

Nano spectrophotometer is micro volume UV spectrophotometer which takes measurements at 230 nm, 260 nm, 280 nm. 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 230 nm, 260 nm, 280 nm
- ❑ 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

## Application

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

Model	LNS-B11
Wavelength range	230 nm, 260 nm, 280 nm
Path length	1.0 mm, 0.2 mm
Minimum Sample size	0.3- 2 µl
Absorbance range	0.02- 75 A (10mm equivalent)
Absorbance precision	0.002 Abs
Absorbance accuracy	1%
Light source	Xenon flash lamp
Measurement time	<5 s
Detects proteins up to	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- 3750 ng/µL (dsDNA)
Software Compatibility	Win CE

Operating Power Consumption	40 W
Standby Power Consumption	5 W
Operating Voltage	24 V DC
Dimension	240×220×140 mm
Weight	2.35 kg

## Nano Spectrophotometer LNS-C1 Series

Nano Spectrophotometer with full spectrum covers a wide wavelength range of 190 to 850 nm. It requires only 0.3- 2 µl 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 ~ 850 nm
- ❑ 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

### Application

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

### Specifications

Model	LNS-C10	LNS-C11	LNS-C12	LNS-C13
Cuvette	Na	Yes	Yes	Yes
Temperature			Room Temperature 42°C	4-42°C (Heating & Cooling)

PC	Inbuilt
Wavelength range	190 – 850 nm
Wavelength accuracy	± 1 nm
Wavelength Resolution	2 nm (FWHM at Hg 546 nm)
Path length	1 mm, 0.2 mm, 0.04 mm
Path length of cuvette	1 mm/2 mm/5 mm/10 mm
Minimum sample size	0.3-2 µl
Precision of wavelength	± 1 nm
Sample Pedestal Material	Stainless steel and Quartz fiber
The inner computer system	Win7(64-bit operating system)/ Win8
Screen	Color LCD Touchscreen display
Absorbance range	0 to 500 Abs
Absorbance precision	0.002-400 Abs (10 mm)
Absorbance accuracy	1% (0.76 absorbance at 350 nm)
Light source	Xenon flash lamp
Measurement time	<5 s
Detects nucleic acids up to	0.4-19000 ng/µL (dsDNA)
Detects proteins up to	0.01-400 mg/ml (BSA)
Dimension	350×240×220 mm
Net weight	5.2 kg