

SPECTROPHOTOMETRIC NUCLEIC ACIDS ANALYZER

BioSpec-nano

Designed for quantitative analysis of nucleic acids. The device enables the researcher to obtain accurate and reproducible results when analyzing extremely small amounts of test material.

The volume of the test sample is 1–2 microliters

The volume of the analyzed sample is 1–2 microliters. There is no need to use measuring cuvettes. A special precision mechanism allows analysis to be carried out directly in a drop of the analyzed sample. The optical path length is selected by the user (0.2 mm for a 1 μ l sample or 0.7 mm for a 2 μ l sample). For analysis of larger volumes, an optional adapter for a rectangular cuvette with an optical path length of 5 mm can be used (Fig. 1).

Automatic analysis

With drop-and-click technology, analysis is easier than ever. Simply place a drop of sample on the special target and press a button – the device does the rest (Fig. 2).

Ease of operation and maintenance

Unlike other devices, all analysis steps, including measurement, sample removal and target cleaning, are fully automated. Thus, the user does not need to perform routine procedures.

Quick Analysis

Thanks to the ultra-small sample volume, analysis takes only a few seconds.

User-friendly software

Specialized software makes working with BioSpec-nano simple and convenient. All basic operations, including starting a measurement, switching between results viewing modes (simple/detailed), exporting results to CSV or PDF, can be easily launched by the user by pressing one key or double-click the mouse on the corresponding icon on the toolbar (Fig. 3).



Fig. 1



Fig. 2

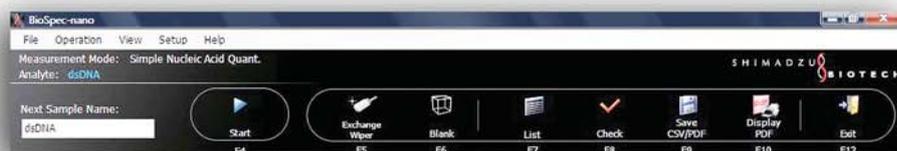
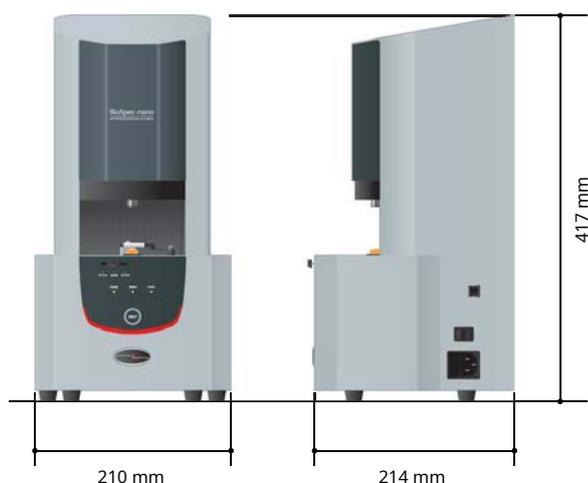


Fig. 3

Technical characteristics of BioSpec-nano

Spectral range	220.0 ~ 800.0 nm
Spectral slit width	3 nm
Wavelength setting error	± 1.0 nm
Optical path length	0.2mm; 0.7mm (manual selection) 5mm (optional)
Light source	Xenon pulsating lamp
Monochromator	Holographic grating
Detector	Diode matrix
Auto-cleaning function	Built-in
Quantitative analysis range (DNA OD, double-stranded DNA concentration)	Optical path length 0.2 mm; from 1 to 75 EOP (from 50 to 3,700 ng/μL) Optical path length 0.7 mm; from 0.3 to 21 EOP (from 15 to 1,000 ng/μL) Optional with 5 mm cuvette; from 0.04 to 3 UOD (from 2 to 150 ng/μL)
Temperature of the working room	18 ~ 28 °C
Relative humidity in the room	40~80%
Power requirements	100~120V, 50/60Hz, 40VA 220~240V, 50/60Hz, 40VA
Dimensions	210 x 214 x 417 mm (W x D x H)
Weight	7 kg

The BioSpec-nano nucleic acid analyzer has been included in the State Register of Measuring Instruments.



WWW.SHIMADZU.COM • WWW.SHIMADZU.EU • WWW.SHIMADZU.COM.UA

«ShimUkraine» LLC - General distributor of analytical equipment
SHIMADZU in Ukraine and the Republic of Moldova

Address: Dmytra Doroshenko street, 18, office 429, Kyiv, 01042, Ukraine

Phone/fax: (044) 284-24-85; 284-54-97; 390-00-23

E-mail: shimukraine@gmail.com

Internet: www.shimadzu.com.ua

www.shimadzu.eu

www.shimadzu.com