

Genova Nano

Micro-volume Spectrophotometer

The new Genova Nano spectrophotometer has all the same features and benefits of the Genova Plus life science spectrophotometer with the addition of the micro-volume accessory making it even more versatile. This spectrophotometer is very simple and quick to use and its ability to measure sample volumes as low as 0.5µl conserves precious samples, reduces the need for dilutions and eliminates the requirement for cuvettes.

The Genova Nano measures small sample volumes with a high degree of accuracy and reproducibility in less than 6.5 seconds. Its stainless steel read head with an embedded quartz lens, utilizes the natural surface tension of the droplet to form the bond between the read head surfaces. Cleaning is quick and simple; wiping the read heads with a microfiber cloth removes all trace of the sample, allowing faster change over between samples and therefore increasing sample throughput.

In line with the Genova Plus, the Genova Nano has pre-programmed methods for the measurement of nucleic acid concentrations and protein assays as well as measurement modes to assess the purity of nucleic acids and optical density for cell harvesting. With pre-programmed methods for the measurement of ssDNA, dsDNA, RNA and oligonucleotide concentrations as well as Bradford, Lowry, Biuret, BCA and Direct UV methods for protein analysis.

As well as the dedicated life science measurement modes this versatile instrument can also be used as a standard spectrophotometer with measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, quantitation and kinetics.

The 3 in 1 ability of the Genova Nano to be used as a life science spectrophotometer, a standard spectrophotometer and a micro-volume spectrophotometer all in one package means it can meet the requirements of any busy laboratory.

Key Features

- 3 in 1 spectrophotometer
- Ideal for DNA, RNA and Protein measurements
- Eliminates the need for micro-volume cuvettes
- Only 0.5µl sample volume required
- Conserves precious samples
- Easy and quick to clean
- Fast measurement time
- Detects DNA concentrations as low as 2ng/µl
- Method and result saving to USB memory stick
- 3 year warranty including Xenon lamp



Genova Nano

Part code: 737 501

Technical Specification

Wavelength

Wavelength Range	198 to 1000nm
Wavelength Accuracy	±2nm
Spectral Bandwidth	5nm
Path Length	0.2 or 0.5mm (auto-ranging)

Photometrics

Absorbance Range	15 to 125A (10mm equivalent)
Absorbance Accuracy	±2% at 260nm
Absorbance Precision	<0.005A between 0 and 1A (at 260nm and 0.5mm)

Concentration/Quantitation

Maximum Concentration	6,000 ng/µl (dsDNA) (at 0.2mm)
Detection Limit	2ng/µl (dsDNA) (at 0.5mm)
Measurement Time	<6.5 seconds
Minimum Sample Size	0.5µl (at 0.2mm) 1.0µl (at 0.5mm)
Maximum Sample Size	5µl
DNA measurement modes	dsDNA, ssDNA, RNA, Oligonucleotides, 260/280, 260/230, Variable ratio
Protein measurement modes	BCA, Bradford, Lowry, Biuret, Direct UV

Other

Sample Pedestal Material	Quartz stainless steel
Light Source	Press to read Xenon lamp
Size (w x d x h), mm	275 x 400 x 220
Weight, kg	7.7

When the 10x10mm cuvette accessory is fitted the spectrophotometer conforms to the Genova Plus technical specification – see page 69 for details.

Ordering Information

Part Code	Description
737 501	Genova Nano micro-volume scanning spectrophotometer fitted with micro-cuvette accessory, supplied with 10x10mm cuvette holder, 4GB USB memory stick, instruction manual and universal power supply.

