JENWAY

NEW Genova Nano

3 in 1 Micro-volume Spectrophotometer

This eagerly anticipated spectrophotometer combines the Jenway micro-volume accessory with the high specification Genova Plus instrument. It delivers life science measurement modes and standard spectroscopy measurement modes alongside the new micro-volume capability. This makes the Genova Nano Jenway's first 3 in 1 spectrophotometer, which can adapt to meet all your laboratory needs.

Introducing the Genova Nano

The Genova Nano measures small sample volumes as low as 0.5µl with a high degree of accuracy, reproducibility and speed. Its ability to measure small sample volumes, conserves precious samples, reduces the need for dilutions and eliminates the requirement for cuvettes. Cleaning is quick and simple; wiping the read heads with a microfibre cloth removes all trace of the sample, allowing faster change over between samples and therefore increasing sample throughput.

Key Features

- 3 in 1 spectrophotometer
- Ideal for DNA, RNA and Protein measurements
- Only 0.5µl sample volume required
- Quick and easy to clean
- Detects DNA concentrations as low as 2ng/µl
- Method and result saving to USB memory stick
- 3 year warranty including Xenon lamp

3 in 1 Spectrophotometer

Standard Spectrophotometer

With measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, quantitation and kinetics.

Life Science Spectrophotometer

Additional measurement modes for the measurement of nucleic acid purity, protein assays, nucleic acid concentration and optical density of cell cultures add to the flexibility of the Genova Nano.

Micro-volume Spectrophotometer

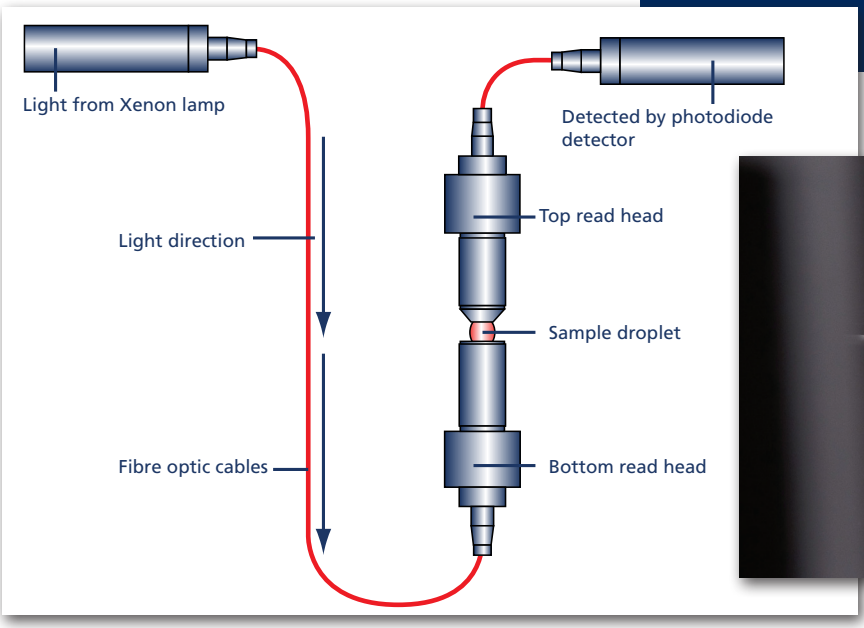
Making measurements easier, quicker and less strenuous.

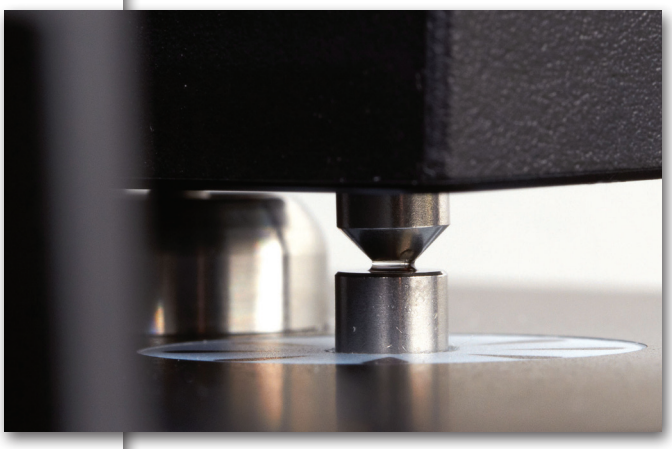
Jenway's NEW Genova Nano is the only 3 in 1 spectrophotometer on the market. Not only does it offer the user the ability to measure micro-volumes but also has all the life science measurement modes of Jenway's Genova Plus along with the standard spectrophotometer modes of the 73 series. In addition to having all the measurement modes needed the Genova Nano can be used with any of the accessories of Jenway's 73 series. It is the only spectrophotometer on the market that combines accurate micro-volume technology into a fully functional life science spectrophotometer. The perfect fit into any laboratory, you choose how best to measure your sample, the Genova Nano will respond.

Accurate, Easy, Fast, Flexible, Simply Effortless.

Micro-volume Spectroscopy

Using micro-volumes in spectroscopy has many advantages firstly there is less wastage of sample which is especially important when using samples that are not readily available such as DNA samples. Secondly time can be saved which would normally be spent on making sample dilutions, also as cuvettes are not needed, spend on consumables is reduced. The Genova Nano can be used with sample volumes as low as 0.5µl with applications from accurately determining protein concentrations to measuring the purity of nucleic acids.





Read Head

Simply pipetting directly onto the read head makes sample measurement, quicker and requires much less effort, eliminating the need for both sample dilutions and cuvettes. The stainless steel read head which consists of a chemically inert embedded quartz lens, utilises the natural surface tension of the droplet to form the bond between the read head surfaces.

Small Sample Volumes

It's ability to measure small sample volumes from 0.5µl to 5µl means minimal sample loss and no need for dilution. The Genova Nano can automatically take readings at the optimal path length if the required path length is not known (either 0.2 or 0.5mm). This makes it ideal for nucleic acid researchers where sample availability may be limited; the perfect analysis tool to measure the purity and concentration of biological samples.

Fast Readings

The Genova Nano takes sample measurements in less than 6.5 seconds. With no need for dilutions and no need to clean cuvettes, results are achieved quickly and effortlessly.

Universally Easy

The full functionality of the Genova Nano is available without the need for a PC. With its large instrument display and icon driven software there is no need for language translations or alternative software versions making the interface clear, simple and universally recognisable.

Instant Results

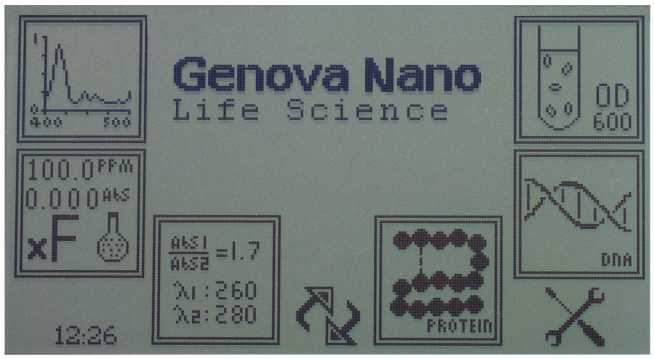
Like the rest of the 73 series range the Genova Nano has an optional printer which fits into the top of the spectrophotometer, again minimising bench space and enabling the instant production of result records.

True Flexibility

We at Jenway recognise that some samples need different treatment, so we have provided you the option of choosing the best way to measure your sample by designing the Genova Nano to be compatible with any of the accessories from our 73 series. Including an electronic peltier, sipper pump, water heated cuvette holder amongst others. This allows the Genova Nano to be truly flexible.

Measurement Modes and Methods

To make sample measurement even easier the Genova Nano has many pre-programmed methods set up and ready to use. It is pre-programmed as a standard spectrophotometer like the rest of the 73 series spectrophotometers with measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, quantitation and kinetics. Furthermore, it has the life science measurement modes of the Genova Plus for the measurement of nucleic acids, and proteins.



Ordering Information

Product 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.

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

JENWAY
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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.