

iGene Labserve IG-Nano+

MICROVOLUME UV-Vis SPECTROPHOTOMETER



 TOLL FREE NO.: 1800572 0603

 Email: info@igenels.com

 Website: <https://www.igenels.com>

The Smart Microvolume Spectrophotometer

Extremely fast and easy quantitative analysis of nucleic acid and protein by UV-Vis absorption spectrophotometry.

iGene Labserve IG-Nano+ measure micro-volume sample's concentration, namely nucleic acid (dsDNA, ssDNA, RNA), protein (Lysozyme, BSA, IgG) and equipped with more than 20 different measuring mode.

Measuring Mode : Nucleic Acid(dsDNA, ssDNA, RNA),
Protein(Lysozyme, BSA, IgG), OD600, etc.



1

Compact

It is a small spectrophotometer featuring compact size and main unit control.

2

Auto Pathlength

A user can conduct the measurement precisely because it can be automatically set the pathlength according to the concentration.

3

Create User Menu

Can add user menu combined by user's most accessed measure mode.

4

Quick Boot

There is no need for measurement standby since it does not require a lamp warming-up.



Full Spectrum Analysis

iGene Labserve IG-Nano+ can measure the absorption spectrum UV-VIS (190 nm~850 nm) in seconds using by array type spectrophotometer technology with Xenon lamp and CMOS. Sensor (2048 pixels). It also provides various algorithm like Peak/Valley detection.

Maximization of user friendliness

There is no need for a user manual since it provides a simple and intuitive user environment.

Cuvette Holder

It can measure protein and conduct cell counting.

Data Management

The measurement result can be saved or downloaded to a USB flash drive.

LCD Touch Screen

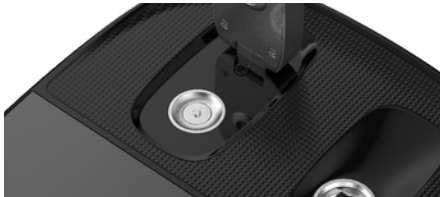
A user can easily operate the system using the intuitive LCD screen and touch functions.

Loading Guide

It helps even new users to drop the sample easily and accurately on the loading spot.



Cuvette Holder



Stand-Alone.

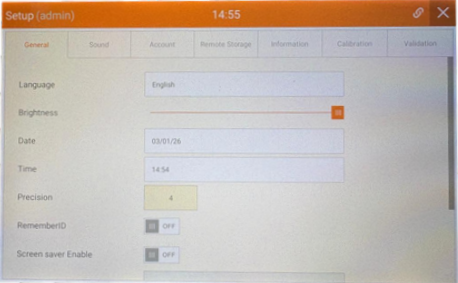
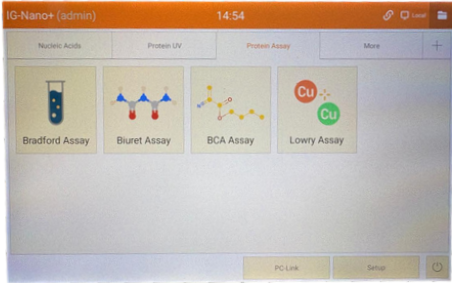
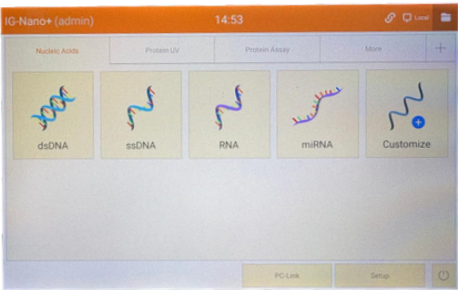
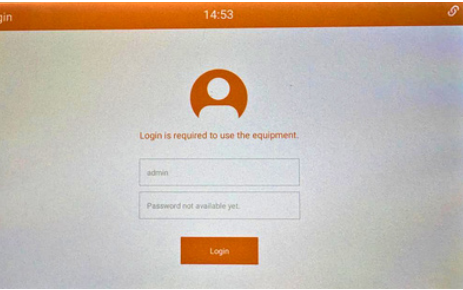
It does not need a separate computer since the main unit performs the control, and the measurement data can be saved in the equipment to improve the space utilization and economic efficiency.

Compact

The lightweight and small spectrophotometer features the dimensions of 216 x 290 x 153 mm and weight of ~3 kg.

7.0 inch, 1280 x 800 HD color display device
The built-in capacitive touch LCD panel helps users operate it easily and conveniently.

Full Spectrum Analysis IG-Nano+ measure the absorbance at a spectrum range of UV-Vis (190 - 850 nm) in seconds with an array type spectrophotometer technology using Xenon lamp and CMOS-sensor (2048 pixels). It also provide various algorithms like Peak/Valley detection.



Menu	Factor	Measurement Type	Unit
dsDNA	50	Nucleic Acid	ng/μL
ssDNA	37	Nucleic Acid	ng/μL
RNA	40	Nucleic Acid	ng/μL
miRNA	33	Nucleic Acid	ng/μL
Custom	Input	User Defined	User Defined
BSA	1,5	Protein	mg/mL
SA	1.49, 1.72 (mouse, human)	Protein	mg/mL
IgG	0.71, 0.74 (mouse, human)	Protein	mg/mL
IgE	65	Protein	mg/mL
Human Lysozyme	38	Protein	mg/mL
OD1	1	Optical Density	OD
OD600	1	Optical Density	OD600

Parameter	IG-Nano+
Product Type	Microvolume & Cuvette Spectrophotometer
Light Source	Xenon Flash Lamp
Lamp Lifetime	Up to 10 years
Detector	2048-element CMOS linear image sensor
Spectral Resolution	1.5 nm (FWHM at Hg 253.7 nm)
Wavelength Range	190 – 850 nm
Wavelength Display / Setting	1 nm
Wavelength Accuracy	±1 nm
Baseline Correction	Wavelength selectable (190–850 nm)
Absorbance Precision	0.002 AU (0.5 mm path) or 1%
Absorbance Accuracy	3% (at 0.97 A at 302 nm)
Measurement Time	< 8 seconds
Minimum Sample Volume	1 µL
Pathlength	0.03 – 1.0 mm
Photometric Range	0.02 – 550 A (10 mm equivalent)
Display Range	0 – 3 A
Detection Range (Concentration)	dsDNA: 2 – 27,500 ng/µL; BSA: 0.06 – 825 mg/mL; IgG: 0.03 – 400 mg/mL
Detection Limit	dsDNA: 0.2 – 150 ng/µL; BSA: 0.006 – 5 mg/mL; IgG: 0.003 – 2 mg/mL
Pedestal Material	303 stainless steel & quartz fiber
Center Height (Z-height)	8.5 mm
Cuvette Support	Yes
Supported Cell Type	12.5 × 12.5 mm (outside dimension)
CPU	Octa-core ARM® Cortex™-A53
Internal Storage	32 GB
Glove Compatibility	Yes
Connectivity	4 × USB-A, Ethernet, RS232
Display	7-inch touchscreen (1280 × 800)
Operating System	Android