UV-Vis Spectrophotometer “Nano-Drop Digital 7”

ANDROID SYSTEM, TOUCHSCREEN, USB PORT.
MICROVOLUME UV-VIS.
WAVELENGTH (200-800 NM)
MINIMUM LOAD FOR DETECTION: 2 µl.
INCLUDES THERMAL PRINTER

NEW

USB

DESCRIPTION

The Nano-Drop Micro-Spectrophotometer is a spectrophotometer that measures samples from 0.5µl-2µl with high precision and capacity. Sample holders apply surface tension to form a sample column so that samples are held in the holder. During measurement, light passes through the sample column. In addition, the Nano-Drop has the ability to measure highly concentrated samples without dilution (100x higher concentration than samples measured by a standard cuvette).



APPLICATIONS

Rapid and precise detection of nucleic acids and proteins with just 2 µl of sample.
Measurement of bacterial concentration and culture solutions using the cuvette mode.
Determination of bacterial growth through the bacterial cell concentration test function (OD600).
Applications in various fields of life sciences, serving as a routine instrument in laboratories.
Detection of colorimetric methods such as Bradford and Lowry.



TECHNICAL CHARACTERISTICS

1. Wavelength range 200-800 nm.
2. Minimum sample size: 0.5-2.0 µl.
3. Path length: 0.2 mm / 1.0 mm.
4. Light source: Xenon flash lamp.
5. Detector Type: 2048 linear CCD array.
6. Wavelength accuracy: ±1 nm.
7. Spectral resolution: ≤3 nm (FWHM at Hg546 nm).
8. Absorbance accuracy: 0.003 Abs.
9. Accuracy of absorbance: ±1 % (7.332 Abs at 260 nm).
10. Absorbance range: 0.04 - 90 A.
11. Detection range: 2 ng/µl to 4500 ng/µl (dsDNA).
12. Measurement time: < 8 S.
13. Data output: USB
14. Material of sample pedestal: Aluminum alloy and quartz fiber.
15. Operating power: 25 W.
16. Standby power: 5 W..
17. Android system.
18. ABS stability ≤0.5 % (at 0.3 ABS).
19. ABS repeatability ≤0.5 % (at 0.3 ABS)
20. ABS accuracy ≤1 % (at 2.3 ABS).

OD600nm measurement:

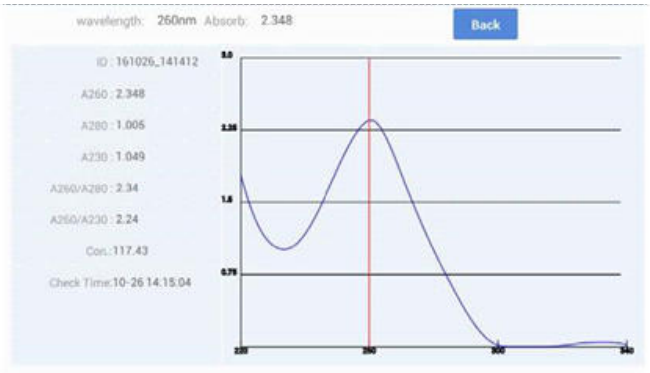
1. Light source: LED.
2. Wavelength range: 600±8 nm.
3. Absorbance range: 0-4 A.

Code	Width/Depth/Height cm	Supply voltage	Weight Kg
4120037	21 28 18	DC 24V 2A	3.6

ACCESSORIES

INCLUDED

Thermal printer
Carrying case
Spectrophotometric cuvettes
Thermal printer paper rolls
Mouse for easy screen operation



Nucleic acid detection