

ND-3800-OD Nano DOT Microspectrophotometer

ND-2800-ODJ Nano DOT Nucleic Acid Analyzer

HIGHLIGHTS

- Standalone**
 Integrated Android system eliminates the need for a separate computer
- 7-inch touch screen**
 Easy and flexible operation with 7-inch color touchscreen interface
- OD₆₀₀**
 OD₆₀₀ pre-defined program for measuring concentration of bacteria
- Microvolume**
 Requires less than 2 μL samples for analysis, save your precious samples
- Easy and Rapid**
 Simply pipette, measure and wipe clean. Fast measurement time of less than 8 seconds
- No Dilution**
 No dilution of samples required
- No Warm Up**
 No more waiting time to warm up lamp
- Long Lifespan**
 Xenon flash lamp, 10⁹ flashes (up to 10 years)
- Compact**
 Small footprint design conserves bench space
- Flexible data output**
 Results can be printed with built-in thermal printer. Data can be exported via USB



ND-3800-OD
Nano DOT Microspectrophotometer



ND-2800-ODJ
Nano DOT Nucleic Acid Analyzer



Scan to
watch video

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Lab Systems

Superior Performance in Nucleic Acid and Protein Quantification

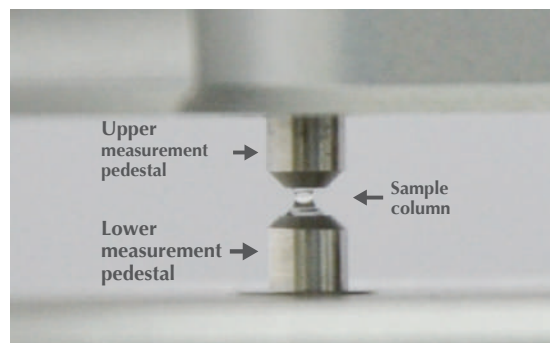
Specially designed for the life science market, Hercuvan is offering two types of microvolume spectrophotometers for fast and accurate quantification of nucleic acid and protein.

ND-3800-OD Nano DOT Microspectrophotometer is a robust microspectrophotometer that provides full spectrum UV-Vis analysis. OD₆₀₀ measurement with cuvette mode enables measuring of bacteria concentration in liquid suspension to monitor growth of bacterial cultures. Enhanced with 7-inch touch screen design and built-in Android system, it allows quick navigation of application modules, easy operation and access of data without requiring connecting to a computer.

It is an integrated system that delivers fast and reliable quantification of nucleic acid and protein with microvolume samples as little as 0.5 µL.

ND-2800-ODJ Nano DOT Nucleic Acid Analyzer is a stand alone, easy-to-use and compact spectrophotometer that is ideal for quick measurement of concentration and purity of nucleic acid and purified protein samples by using 260 nm and 280 nm. ND-2800-ODJ has an additional feature, OD₆₀₀ measurement, which allows quantification of bacteria concentration in liquid suspension by using cuvette.

Samples of 1 µl to 2 µl can be measured by pipetting directly onto lower pedestal without requiring absorption cell or cuvette and the results can be obtained in less than 8 seconds. The newly 7-inch colour touchscreen and intuitive graphical interface make operation easy and user friendly. Results can be printed with the built-in printer or exported via USB flash drive.



EACH STANDARD SET INCLUDES

- 1 Main device
- 2 Power adapter (DC 24V)
- 3 Mouse
- 4 Printing Paper (2 rolls)
- 5 Cuvettes (2 pcs)

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Pipette



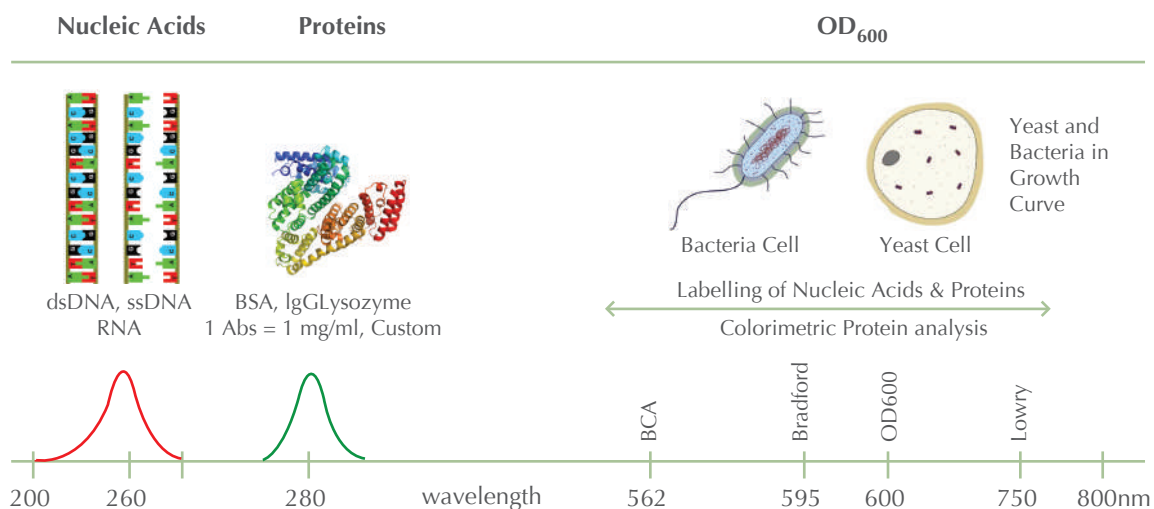
Measure



Wipe

PRODUCT SELECTION GUIDE

Applications	ND-3800-OD Nano DOT Microspectrophotometer	ND-2800-ODJ Nano DOT Nucleic Acid Analyzer
Full Spectral Data (200 - 800nm)	■	
Measures Nucleic Acid Concentration	■	■
Measures Nucleic Acid 260/280 Ratio	■	■
Measures Nucleic Acid 260/230 Ratio	■	
Measures Protein A280	■	■
Measures Protein BCA	■	
Measures Protein Lowry	■	
Measures Protein Bradford	■	
Measures OD ₆₀₀	■	■
Measures Industrial Dyes (490nm)	■	
Measures Gold Nanoparticles (520nm)	■	



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TECHNICAL DATA

Specifications	ND-3800-OD Nano DOT Microspectrophotometer	ND-2800-ODJ Nano DOT Nucleic Acid Analyzer
Sample size	0.5 µl - 2 µl (2 µl advised)	1 µl - 2 µl (2 µl advised)
Path length	0.2 mm (high concentration) 1.0 mm (ordinary concentration)	0.5 mm
Light source	Xenon flash lamp/ >10 ⁹ flashes	UV LED
Detector type	2048 – element linear CCD array	UV silicon photocell
Optical system	Single monochromator	-
Wavelength range	200 – 800 nm	260 nm, 280 nm
Wavelength accuracy	±1 nm	-
Spectral resolution	≤3 nm (FWHM at Hg 253.7 nm)	-
Absorbance precision	0.003 Abs	0.005 Abs
Absorbance accuracy	1% (7.332 Abs at 260 nm)	1% (7.332 Abs at 260 nm)
Absorbance range (10 mm equivalent absorbance)	0.04 – 90 A	0.02 – 80 A
Detection range	2 – 4,500 ng/µl (dsDNA) 0.1mg/ml - 70mg/ml (protein)	10 – 2,500 ng/µl (dsDNA)
Detection time	<8s	<8s
Sample pedestal material	Aluminium alloy and quartz fiber	Aluminium alloy and quartz fiber
Display	7-inch touch screen	7-inch touch screen
Operating voltage	DC 24V	DC 24V
Operating power consumption	25W	25W
Standby power consumption	5W	5W
Dimension (WxDxH)	208 x 280 x 186 mm	208 x 280 x 186 mm
Net weight	3.6 kg	3.5 kg
Software compatibility	Android system	Android system
Data output interface	USB	USB

OD₆₀₀ MEASUREMENT

Specifications	ND-3800-OD Nano DOT Microspectrophotometer	ND-2800-ODJ Nano DOT Nucleic Acid Analyzer
Light source	LED	LED
Wavelength range	600 ± 8nm	600 ± 8nm
Absorbance range	0-4A	0-4A

ORDERING INFORMATION

Cat. No.	Microspectrophotometer / Nucleic Acid Analyzer
ND-3800-OD	Nano DOT Microspectrophotometer ND-3800-OD, DC 24V
ND-2800-ODJ	Nano DOT Nucleic Acid Analyzer ND-2800-ODJ, DC 24V