

NS-100 Nano Scan Microplate Reader

HIGHLIGHTS

- 7-inch touch screen with intuitive control panel
- Can be operated as a stand-alone system or connects to printer (optional) 9 channel vertical optical path
- Broad wavelength range (4 standard filters: 405nm, 450nm, 492nm, 630nm with optional filters from 340-750 nm)
- Flexible data output (thermal printer or export via USB drive)
- Built-in shaker with 3 modes of speed selection
- Fast and reproducible measurement within 6 seconds
- Automatic motorized door for convenient sample loading
- Analyses include pre-processing for dual mode reads, +/- interpretation with controls, concentration determination, curve fits, and kinetic measurement analyses & curves



Redefining your Assay with Superb Precision and Speed

NS-100 Nano Scan Microplate Reader is an excellent and versatile microplate reader that is essential for laboratories that require routine measurement of concentration or absorbance in 96 well plates. It is intended for use in various applications such as ELISA (enzyme-linked immunosorbent assays), protein quantification, cell proliferation, enzyme kinetic as well as colorimetric assays.

With fast reading speed, great performance and reproducible result, users no longer have to worry about inaccuracy or time-consuming measurements for your assays.

The NS-100 Nano Scan Microplate Reader offers user-friendly interface with convenient data output, large data storage, built-in shaker for uniform cell suspension and homogenized coloured solutions. It is an economical, robust and stand-alone system that does not require any external computer. The compact design takes up only minimal space making it suitable for small laboratories.



APPLICATIONS

- ELISA
- Protein quantification
- Cell proliferation and growth curves
- Enzyme kinetic assay
- Colorimetric assay





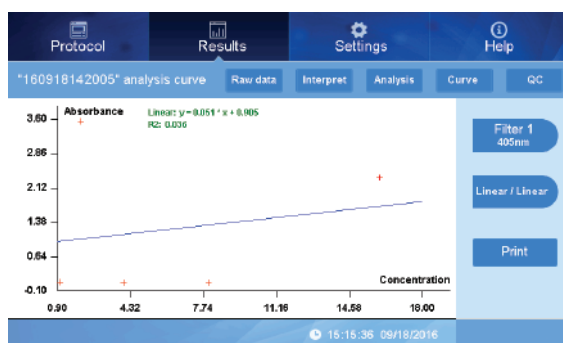
NANO SCAN INTUITIVE GRAPHICAL INTERFACE



1 Simply choose pre-set or customize your own protocols and analysis options.



2 Set up your 96-well plate layout by assigning the positions for positive/ negative controls, standards, samples etc.



3 After running, analyse your results with the “Curve” or “Kinetics Measurement” options.

	1	2	3	4	5	6	7	8	9	10	11	12
A	0.078	3.548	0.066	0.067	2.334	2.907	0.065	0.079	3.604	0.703	3.174	3.067
B	0.061	0.076	0.072	0.068	0.070	0.067	0.081	0.068	0.064	3.307	3.378	1.711
C	0.074	0.089	0.071	0.067	0.077	0.082	3.359	2.769	3.179	0.063	3.307	0.068
D	3.567	0.068	0.066	0.075	0.095	0.063	0.067	0.066	0.094	0.060	3.360	
E	0.091	0.106	0.087	0.079	0.068	0.067	2.061	0.074	0.061	0.059	0.075	0.064
F	0.072	0.071	0.069	3.054	0.089	0.074	0.069	0.070	0.068	2.395	0.064	0.066
G	0.080	0.069	0.084	0.108	0.084	0.085	0.077	0.073	0.065	0.071	0.074	0.165
H	0.067	0.077	0.066	0.071	0.074	0.079	0.064	0.070	0.064	0.096	0.072	0.073

4 The ‘Cutoff’ value can also be set to interpret your results as ‘positive’ or ‘negative’. Print your results using a thermal printer (optional) or export via USB.

A PLETHORA OF ASSAYS FOR YOUR RESEARCH

Filter	Assay
340 nm	Glutathione S-Transferase (GST), NAD/NADP Conversion
405 nm	Alkaline phosphatase (PNPP), β-galactosidase (ONPG), β-glucosidase (PNPG), Horseradish peroxidase (ABTS)
415 nm	Hydrogen peroxide concentration assays, Total glutathione assays (GSSG/GSH)
450 nm	Horseradish peroxidase (TMB), Glucose colorimetric
492 nm	Horseradish peroxidase (OPD), DPD, MTS, XTT
540 nm	BCA
570 nm	MTT
578 nm	L-Ascorbate
590 nm	BCA
595 nm	Bradford, Lowry, Diphenylamine DNA (DISHE)
650 nm	Total phenolic content (TPC)
663 nm	Chlorophyll content
750 nm	Lowry

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Hercuvan

Lab Systems



1 Custom Filters for Your Assay

Can't find the filter for your assay? Don't worry! You can select from a total of 28 filters in our extensive catalogue ranging from 340-750nm. Up to 8 different filters can be installed in the NS-100 for your research.



2 Large, Intuitive Touch Screen Graphical Interface

7-inch intuitive touch screen interface allows quick navigation & set up of protocol without any PC. Simply select from any of the pre-set protocols or customize your own protocol according to your needs. Assign controls or sample type & export your data via USB or print straightaway using a thermal printer.



3 Fast, Accurate & Reproducible

Not only fast with a reading speed within 6 seconds, it also makes sure the results are accurate & reproducible without daunting deviations. With this reliable machine, you can save your precious time & samples and you know that the results are correct.

TECHNICAL DATA

Specifications

NS-100 Nano Scan Microplate Reader

Display	7 inch touch screen (800 x 480 pixels)
Compatible Plate Type	96-well plates
Light Source	Quartz-halogen lamp 6V/10W
Wavelength Range	340-750nm
Optical Filter	9 channel vertical optical path. Inclusive of 4 standard optical filters: 405nm, 450nm, 492nm, 630nm. Optional: 4 optical filters from 340nm-750nm
Half-bandwidth of filters	8-10
Dynamic range	0-4.000 Abs
Linearity (405nm)	0-2.000 Abs $\leq \pm 1\%$ 2-4.000 Abs $\leq \pm 2\%$
Accuracy (405nm)	$\pm 1\%$ (0-3 Abs) $\pm 3\%$ (3-4 Abs)
Precision (405nm)	CV $\leq 0.2\%$ (0-3 Abs) CV $\leq 1.0\%$ (3-4 Abs)
Accuracy (450, 620 and 650nm)	1% ± 0.010 (0-3 Abs)
Reproducibility (450, 620 and 650nm)	1% ± 0.005 (0-3 Abs)
Total number of channels	8 channels for detection analysis and 1 channel for reference
Resolution	0.001 Abs
Reading speed	<6 seconds
Reading mode	End point, Dual Mode, Kinetic
Incubator	No
Shaking mode	3 modes: slow, medium, fast
User interface	Integrated software or Touch Screen
Input Voltage	AC100-240V, 50/60Hz
Storage	200 programs and 100,000 records
Ports	2 USB ports (thermal printer, mouse or USB drive), 1 ethernet port
Dimensions (WxDxH)	440 x 295 x 225 mm
Weight	10 kg

ORDERING INFORMATION

Cat. No. Microplate Reader

NS-100 Nano Scan Microplate Reader NS-100, with 4 standard optical filters: 405nm, 450nm, 492nm and 630nm

Cat. No.	Accessories for Microplate Reader	Cat. No.	Accessories for Microplate Reader
NS-100-OF1	Optical filter 340nm	NS-100-OF18	Optical filter 520nm
NS-100-OF2	Optical filter 380nm	NS-100-OF19	Optical filter 532nm
NS-100-OF3	Optical filter 405nm	NS-100-OF20	Optical filter 546nm
NS-100-OF4	Optical filter 415nm	NS-100-OF21	Optical filter 560nm
NS-100-OF5	Optical filter 450nm	NS-100-OF22	Optical filter 562nm
NS-100-OF6	Optical filter 492nm	NS-100-OF23	Optical filter 600nm
NS-100-OF7	Optical filter 540nm	NS-100-OF24	Optical filter 620nm
NS-100-OF8	Optical filter 570nm	NS-100-OF25	Optical filter 646nm
NS-100-OF9	Optical filter 578nm	NS-100-OF26	Optical filter 663nm
NS-100-OF10	Optical filter 590nm	NS-100-OF27	Optical filter 700nm
NS-100-OF11	Optical filter 595nm	NS-100-OF28	Optical filter 750nm
NS-100-OF12	Optical filter 630nm	NS-100-HL	Halogen Lamp for Nano Scan Microplate Reader NS-100
NS-100-OF13	Optical filter 650nm	NS-100-TP	Thermal Printer for Nano Scan Microplate Reader NS-100
NS-100-OF14	Optical filter 690nm	NS-100-PP	Printer Paper for Nano Scan Microplate Reader NS-100
NS-100-OF15	Optical filter 470nm		
NS-100-OF16	Optical filter 490nm		
NS-100-OF17	Optical filter 510nm		