

DARSUN SCIENTIFIC

Full Wavelength Microplate Reader

DS - 8000

A high-performance laboratory instrument powered by an integrated Android system and an intuitive 10-inch color touch LCD display, with precise UV and absorbance detection for protein quantification, cell activity monitoring, and cytotoxicity assays.



STAR PRODUCT

DS-8000 Full Wavelength Reader

200–1000 nm

Full wavelength range

8 s

Detection speed, 96-well plate

$R^2 \geq 0.999$

Linearity at 450 nm, 0–3.0 A

+5 °C ~ 55 °C

Built-in incubation above room temp.



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Product Features

Everything the DS-8000 needs for routine absorbance work is built in: touch control, UV-to-near-infrared detection, temperature control and support for every common plate format.



10-inch touch screen

A 10-inch color touch LCD with a built-in Android system, so setup, running and reviewing a plate all happen on the instrument.



UV and absorbance detection

UV and absorbance detection for protein quantification, cell activity monitoring and cytotoxicity testing.



Built-in incubation

An integrated incubation module holds the plate at +5 °C to 55 °C above room temperature.



Wide plate support

Reads 6, 12, 24, 48, 96 and 384-well microplates, plus the u-Nano Ultra-Micro Assay Plate.

Supported microplates

6

well

12

well

24

well

48

well

96

well

384

well

u-Nano
Ultra-Micro
Assay Plate

8 language packs

Switch the interface language at any time

Chinese

English

Spanish

French

Russian

Portuguese

German

Japanese

Technical Specification

PARAMETER	SPECIFICATION
Light source	Flashing xenon lamp
Wavelength	200–1000 nm
Reading range	0.000–4.000 A
Spectral bandwidth	2 nm
Absorbance accuracy (450 nm)	±1.0% + 0.003 A (0–2.0 A); ±2.0% (2.0–2.5 A)
Absorbance linearity (450 nm)	R ² ≥ 0.999 (0–3.0 A)
Detection speed	8 s (96-well plate)
Incubation	+5 °C to 55 °C above room temperature
Display	10-inch color touch LCD, built-in Android system
Supported plates	6, 12, 24, 48, 96, 384-well; u-Nano Ultra-Micro Assay Plate
Communication interface	USB-A, USB-B, network interface
Data export format	Excel, Word, PDF, TXT, HTML...
Interface languages	Chinese, English, Spanish, French, Russian, Portuguese, German, Japanese

Built for

Protein quantification

UV and absorbance measurement

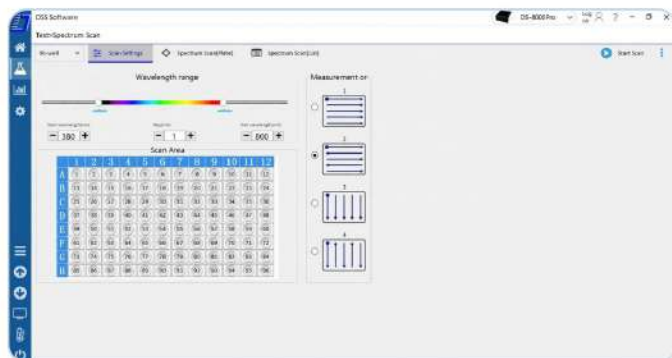
Cell activity

Monitoring with incubation

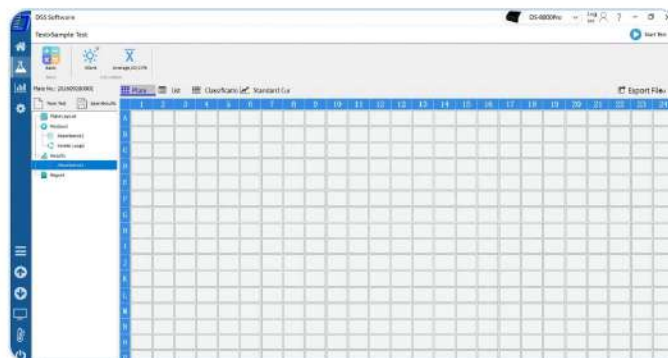
Cytotoxicity assays

Plate-based testing

DSS Software



Spectrum scan



Sample test results, 384-well view

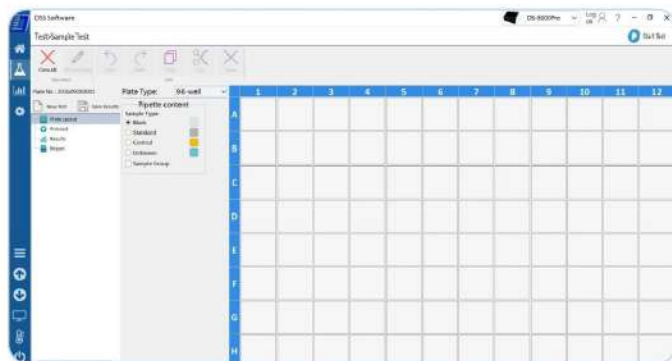


Plate layout, 96-well

In the software

Assign wells as Blank, Standard, Control or Unknown.

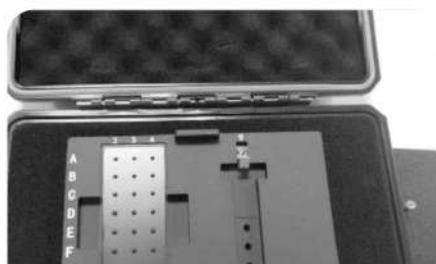
Set the start wavelength, step and end wavelength for a scan.

Review results as plate, list or standard curve, then export.

Accessories

Reader It-II

Reader It-II software



u-Nano Ultra-Micro Plate



OPTIONAL

ABS Optical Performance Validation Board

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