MOLECULAR DEVICES

SpectraMax i Series

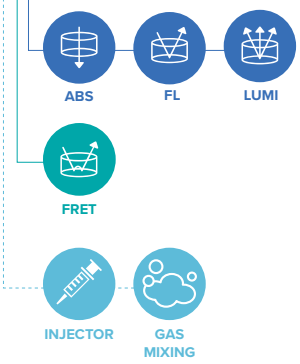
Multi-Mode Microplate Readers

SpectraMax i Series

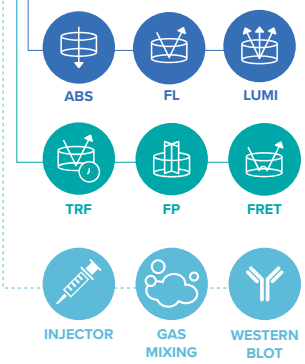
The SpectraMax® i Series of Multi-Mode Microplate Readers offer the ideal solution for any application or budget. Whether you are seeking a flexible platform that balances performance and affordability for routine assays or an upgradable system that can adapt to support your lab's new projects and changing objectives, the i Series has you covered.

Which one will you choose?

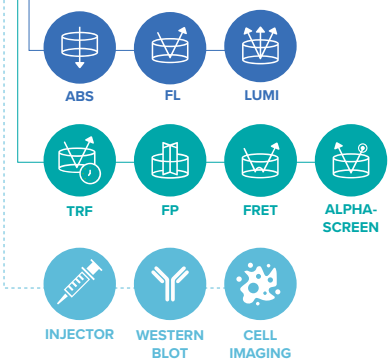
SpectraMax® iD3s



SpectraMax® iD5e



SpectraMax® i3x



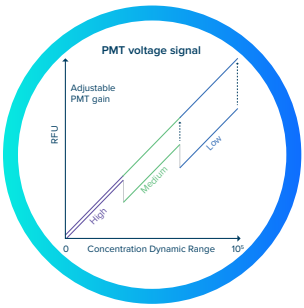
SoftMax® Pro Software

Designed to provide the simplicity, power, and flexibility required for advanced data analysis, the software offers over 200 ready-to-run protocols, powerful data analysis options, and a range of data output options.

- All of our readers come with the industry leading SoftMax Pro Software – the most published microplate reader control and data analysis software.
- For customers working in regulated environments, we also offer comprehensive GxP solutions to help you assure data integrity and compliance.

The right SpectraMax i Series reader for your research

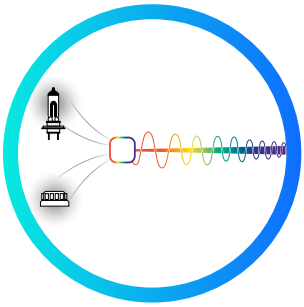
With over 40 years designing and manufacturing microplate readers, we are constantly striving to improve and refine our instruments. The SpectraMax i Series readers have a number of unique features that allow scientists to get more reliable results faster than ever before, allowing them to overcome frequently encountered challenges in the lab.



Auto PMT

Challenge: A standard Photomultiplier Tube (PMT) or detector limits the dynamic range of your instrument. Because a PMT needs to be set to a specified gain to reach a specific sensitivity, signals that are below or above that gain will not be measured properly, limiting the flexibility of your assays.

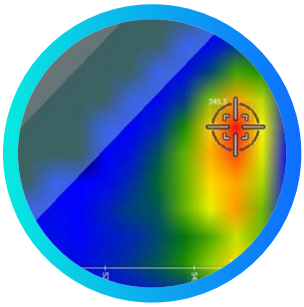
The Solution: The full dynamic range of the PMT will be used to measure the lowest and highest possible concentration in the same run. This will save you from diluting samples or reading your plate over and over again.



Spectral Fusion*

Challenge: The Xenon flash lamp is a great light source to measure all wavelengths. However, the intensity of the light is reduced in the range of 430–680nm.

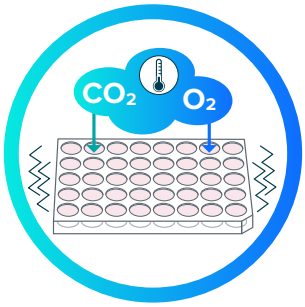
The Solution: Spectral Fusion compensates this by adding specific LEDs to increase the light intensity and therefore sensitivity of your assay. Because LED light intensity can be regulated, we can set our detector to the highest sensitivity to ensure both your lowest and highest concentration samples can be detected in one run, without the chance of saturation.



Spectral Optimization Wizard

Challenge: Using standard fluorescence optimization can take hours or days to determine the best wavelengths to use for excitation and emission. This typically has to be done for every experiment, as the optimal wavelengths vary with the chemical environment and instrument design, among other factors.

The Solution: The Spectral Optimization Wizard saves you time by automatically finding the optimal wavelengths with the highest signal-to-noise ratio by scanning every possible excitation and emission wavelength combination.



Gas Control and Advanced Shaking

Challenge: Cell-based and microbial assays require tightly controlled environmental conditions to ensure reproducibility and biological relevance. Yet, many systems lack integrated gas composition control (CO_2/O_2) and dynamic shaking capabilities—leading to uneven oxygenation, poor nutrient distribution, and stress responses in sensitive cultures. These limitations compromise cell viability, microbial growth, and overall assay performance

The Solution: The SpectraMax iD Series uniquely combines precision gas control with programmable, continuous shaking to create an optimized microenvironment for every assay. CO_2 and O_2 levels can be finely tuned to replicate physiological or anaerobic conditions, while advanced shaking—featuring adjustable RPM, diameter and motion modes—ensures consistent mixing and oxygenation across all well formats.

*On the SpectraMax i3x reader only.
All graphs are for illustrative purposes only

Capabilities

Whether you're performing routine assays or looking to expand your research capabilities, we've got a solution for you. Not sure where your research will take you? No problem! The SpectraMax i3x's reader's user-upgradeable application modules will future-proof your research to include most assay capabilities of the SpectraMax iD3s and iD5e readers, as well as additional capabilities such as imaging.

	SpectraMax iD3s Multi-Mode Microplate Reader	**SpectraMax iD5e** Multi-Mode Microplate Reader	**SpectraMax i3x** Multi-Mode Microplate Reader with MiniMax™ 300 Imaging Cytometer
UV/Vis Absorbance: DNA/RNA/protein quantification, ELISA (HRP, TMB, AP, etc.)	•	•	•
Fluorescence: EarlyTox™ Live Cell (viability), Tryptophan detection, CyQUANT, Pico/Ribo/Oli Green, NanoOrange, Calcium assays/Cardiomyocyte beating, Fluorescence injector assays	•	•	•
Luminescence: Cell Titer-Glo (cell viability), Dual-LUC reporter assay, MycoAlert, ROS-Glo H_2O_2 assay, Flash injector assay, NanoBRET/BRET*	•	•	•
Fluorescence assays requiring specific filters (NIR)		•	•
Fluorescence Polarization (FP): IMAP kinase assays		•	•
TRF: DELFIA		•	•
TR-FRET: HTRF®, Cytokine measurement, LanthaScreen, LANCE		•	•
Western blot detection		•	•
AlphaScreen			•
Cell imaging*: StainFree™ analysis, Spheroid analysis, Cytotoxicity, Marker expression, Cell viability			•
Injectors	•	•	•
Temp up to 66°C	•	•	
Gas control and advanced shaking	•	•	
Stand alone touchscreen operation		•	
Bottom read luminescence		•	
Hybrid filter and monochromator Ex/Em		•	
1536 well plates with cartridges			•
User-upgradeable for additional read modes and capabilities		•	•

*with optional MiniMax 300 Imaging Cytometer for the SpectraMax i3x reader

Contact Us

Phone: +1.800.635.5577
Web: www.moleculardevices.com
Email: info@moldev.com

Check our website for a current listing of worldwide distributors.

Regional Offices

USA and Canada	+1.800.635.5577	Taiwan/Hong Kong	+886.2.2656.7585
United Kingdom	+44.118.944.8000	Japan	+81.3.6362.9109
Europe*	00800.665.32860	South Korea	+82.2.3471.9531
China	+86.4008203586	India	+1.800.266.5338

Austria, Belgium, Denmark, Finland, France, Germany, Iceland, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, Switzerland and United Kingdom

9/25 2346C
Printed in USA