Innovative Solutions for Drug Discovery and Life Sciences Research

Unleash your brilliance™
Advancing cell and protein analysis technologies for your landmark scientific achievements

Molecular Devices is a leading provider of high-performance bioanalytical measurement solutions for life science research, pharmaceutical development, and biotherapeutic discovery with over 130,000 instrument placements in laboratories around the world that have fueled over 25,000 peer-reviewed publications. Our leading-edge products enable you to improve productivity and effectiveness, ultimately accelerating research and the discovery of new therapeutics.
Multi-Mode Detection Systems

We offer a versatile range of multi-mode readers with a variety of product configurations to allow you to meet your research application needs. With up to eight different detection modes and field upgradability, you now have the flexibility to expand your capabilities at any time.

**SpectraMax® iD5**
Five-mode plate reader including TRF, tunable FP, and western blot detection with large, high-res touchscreen, NFC functionality, ultra-cooled PMT and SmartInject™ Technology.

**SpectraMax® iD3**
Three-mode plate reader with large, high-res touchscreen, NFC functionality, ultra-cooled PMT and SmartInject™ Technology.

**SpectraMax® i3x**
Three-mode plate reader with user upgradeable application modules including TRF, injectors and western blot imaging. Optional MiniMax 300 Imaging Cytometer for cellular imaging capabilities.

**SpectraMax® Paradigm**
High-throughput, user-upgradeable multi-mode microplate reader platform that enables new detection mode capability in under two minutes.

**SpectraMax® M Series**
Upgradeable platform with tunable absorbance, fluorescence, luminescence; TRF, triple mode cuvette port, kinetics, spectral and well scanning, AutoPMT™ and PathCheck™ Technology.

**FlexStation® 3**
Tunable absorbance, fluorescence, FRET, TRF, FP, TR-FRET, HTRF, luminescence with automated fluid transfer for endpoint, flex and fast kinetics.

**FilterMax™ F3 & F5**
Filter-based multi-mode microplate readers that provide both affordability and unmatched assay performance.

Innovative Solutions for Drug Discovery and Life Sciences Research
Absorbance Readers
Our line of absorbance readers, including instruments featuring patented technologies such as PathCheck® Pathlength Measurement technology and tunable monochromators, provide you with more flexibility, sensitivity, and ease-of-use for the broadest range of assays.

**SpectraMax® Plus®**
UV-visible absorbance microplate reader with ultrafast, full spectral range detection for cuvettes, 96- and 384-well microplates. Wavelength range: 190-1000 nm.

**SpectraMax® 340PC®**
Versatile visible absorbance reader for 96- and 384-well microplate formats. Wavelength range: 340-850 nm.

**VersaMax® ELISA**
Bridging the gap between the affordability of filter-based readers and the flexibility of monochromator-based systems for 96-well plate formats. Wavelength range: 340-850 nm.

**EMax® Plus**
Robust, high-value microplate reader designed to deliver research-grade results to any laboratory. Simple to set up and features pre-defined protocols. Wavelength range: 400-750* nm.

**SpectraMax® QuickDrop Micro-Volume Spectrophotometer**
One touch, full-spectrum micro-volume reader for DNA/RNA/protein quantitation. Built-in sample port for small volumes (0.5 µL). Cuvette port for larger volumes. Wavelength range: 190-1100 nm.

Fluorescence Readers
Analyze ELISAs, protein and nucleic acid quantitation, reporter gene, cell viability and proliferation, and cytotoxicity assays all without the use of filters.

**Gemini™ XPS**
Enables top reading of microplates over a greater range of fluorescence intensities—all without the use of filters. Tunable to 250-850 nm excitation, 360-850 nm emission.

**Gemini™ EM**
Enables top and bottom reading of microplates without the use of filters. Tunable to 250-850 nm excitation, 250-850 nm emission.

Luminescence Readers
High sensitivity and high throughput glow and flash luminescence detection in an upgradeable platform.

**SpectraMax® L**
Upgradeable platform available with one or two luminescence detectors, enabling affordable higher throughput configurations.

* Configurable filter-based wavelength selection
Software Solutions
Our suite of software packages delivers the most comprehensive and feature-rich solutions for every data analysis need. From ready-to-run algorithms to high-content informatics, our software solutions provide you with the tools you need to evaluate your data.

SoftMax® Pro
Industry-leading SoftMax Pro Software is used by over 100,000 users worldwide, delivering the most comprehensive portfolio of ready-to-run protocols, analysis algorithms and FDA 21 CFR Part 11 compliance tools.

GenePix® Pro
GenePix Pro Software is the industry standard in microarray image analysis because of its unique combination of imaging and analysis tools, visualizations, automation capabilities, performance and ease-of-use.

Microplate Washers
Robust and reliable microplate washers are an essential component of today’s research laboratories. We offer a range of washers to meet your needs including strip washers and full plate washers.

MultiWash™+
The compact, quiet, user-friendly MultiWash+ Microplate Washer includes 20 pre-set protocols, works with both 96- and 384-well plates and comes with 4 different wash/rinse bottles for out-of-the-box use. It’s simply a great fit for any lab.

AquaMax®
The 4-in-1 AquaMax line of self-contained, automation-capable washer systems are easily configurable to meet assay needs.
Handlers and Accessories

Expand the capabilities of your Molecular Devices platform through the addition of a wide array of handlers and accessories. From an automated microplate handling system to a low volume microplate, our handlers and accessories help you achieve the results you want.

StakMax® Microplate Handling System
An integrated microplate stacker that provides benchtop automation for batches of up to 50 microplates in a small footprint.

SpectraCuvette Adapter
Adds cuvette reading capability to your microplate reader. Compatible with the SpectraMax i3, iDS, i3(x), Paradigm, and FilterMax readers.

SpectraDrop™ Micro-Volume Microplate
Specially-designed, high throughput solution for low volume DNA and protein measurement assures uniform and reproducible analysis.

SpectraTest® Validation Plates
Comprehensive tools for verifying Molecular Devices absorbance, fluorescence, and luminescence microplate readers are performing to manufacturing specifications.

Microarray Scanning Systems

Our systems can handle any slide-based microarray study, from small one- or two-fluorophore applications to multiple-fluorophore high-throughput projects requiring automated sample handling and secure enterprise-wide data management and analysis. All GenePix scanners include one license of GenePix Pro Image Acquisition and Analysis Software, the benchmark tool for the acquisition and analysis of microarray images.

GenePix 4300/4400
Coupled with GenePix Pro Microarray Image Analysis Software and Acuity® Microarray Informatics Software, these systems provide powerful, flexible, and easy-to-use solutions for acquisition and analysis.

GenePix 4100A
Built on our award-winning optical, electronic and software design, this sequential scanner has all the quality in a price range and bench-top footprint that makes it ideal for individual lab use.

GenePix 4000B
This scanner is a benchmark for quality, reliability and ease-of-use in microarray scanning technology.
Assay Kits

We offer easy-to-use, robust assay kits for life science research, drug discovery & development, and bioassays. All assay kits are optimized for use on Molecular Devices systems.

**ScanLater Western Blot**
Substrate-free immunoblot assay for extended signal stability.

**GPCR Assays**
Cell-based assays including FLiPR® Calcium assay kits and CatchPoint® cAMP and cGMP reagents optimized for sensitivity.

**ScanLater Western Blot**
Substrate-free immunoblot assay for extended signal stability.

**Ion Channel Assays**
Functional measurement of potassium channel activity in a cell-based assay.

**Cell Viability**
Detect cell viability and cell proliferation on fluorescence microplate readers.

**dsDNA Quantitation**
Optimized DNA measurement for your microplate reader assay.

**Reporter Gene**
Luciferase measurement for your microplate reader assay.

**Dual Luciferase Reporter Gene**
Highly sensitive quantitation of both firefly and Renilla luciferases in mammalian cells.

**Cardiotoxicity and Cell Integrity**
Identify cardiotoxic compounds and differentiate live cells.

**Enzymes**
Homogeneous assays measure kinases, phosphatases, and phosphodiesterases.

**Transporters**
Live-cell kinetic assays measure fatty acid and neurotransmitter uptake.

**Immunooassay**
Homogeneous no-wash assay for protein quantitation.

**Contaminants**
Assays measure proteins, peptides, microorganisms, and single-stranded DNA.
SpectraMax Detection Modules

The SpectraMax i3x and Paradigm Multi-Mode Detection Platforms utilize a patent-pending design that allows for real-time system configuration by the user in less than two minutes. This revolution in modularity makes no-compromise detection the norm. The broad array of SpectraMax Detection Modules enable the user to perform an ever-evolving array of applications. Although your detection needs may change, your equipment can stay the same simply by adding a new detection module.

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Description</th>
<th>Name</th>
<th>Specifications</th>
<th>Optimized sensitivity</th>
<th>Guaranteed sensitivity</th>
<th>Slots used</th>
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<tbody>
<tr>
<td>Dual Auto Injector</td>
<td>SpectraMax i3x Injector Cartridge with SmartInject™ Technology Expand your research capabilities to include flash-based applications, including dual luciferase and ATP assays.</td>
<td>0200-7029</td>
<td>Wavelength range (LUM): Visible to 650 nm Dead volume: &lt; 10 µL with Reverse Prime function</td>
<td>20 amol ATP (“Flash” luminescence using Promega Enlieten)</td>
<td>50 amol ATP (&lt;= 250 fM @ 0.2mL/well, “Flash” luminescence using Promega Enlieten)</td>
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<tr>
<td>ScanLater</td>
<td>Western blot detection using ScanLater Western Blot Assay Kit TRF-based with 340/80 nm EX and 616/10 nm EM</td>
<td>0200-7027</td>
<td>EX range: 340/80 nm EM range: 616/10 nm</td>
<td>High fg levels of Streptavidin</td>
<td>High fg levels of Streptavidin</td>
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<tr>
<td>AlphaScreen</td>
<td>AlphaScreen and AlphaLisa detection using 1 W 680 nm EX laser diode and a 570 nm (100) EM filter Pick best speed, sensitivity, and price for your needs Guaranteed sensitivity: &lt; 100 amol phosphorolytes biotin-peptide in 25 µL assay volume in a 384-well plate</td>
<td>0200-7017POS</td>
<td>Alpha 384 STD 96- and 384-well plates</td>
<td>&lt; 100 amol (384-well)</td>
<td>&lt; 100 amol (384-well)</td>
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<td>0200-7018POS</td>
<td>Alpha 384 HTS 96- and 384-well plates</td>
<td>&lt; 100 amol (384-well)</td>
<td>&lt; 100 amol (384-well)</td>
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<td>0200-7019POS</td>
<td>Alpha 1536 HTS 96, 384, and 1536-well plates</td>
<td>&lt; 100 amol (384-well)</td>
<td>&lt; 100 amol (384-well)</td>
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<td>HTRF</td>
<td>Cisbio HTRF detection with optimized Xenon light source and 816, 665 nm EM filters Measures both emissions simultaneously</td>
<td>0200-7011POS</td>
<td>6- to 1536-well plates</td>
<td>Exceeds Cisbio certification requirements</td>
<td>2</td>
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<tr>
<td>TRF</td>
<td>LED light source and Europium EX and EM filters (370-616 nm) Suitable for assays using Europium chelate and similar labels Includes 642 nm EM filter for TR-FRET assays with Samarium labels</td>
<td>0200-7008POS</td>
<td>6- to 1536-well plates</td>
<td>96-0.03 pM 384-0.03 pM 1536-0.125 pM</td>
<td>96-well: 0.1 pM 384-well: 0.1 pM 1536-well: 0.375 pM</td>
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<tr>
<td>FP</td>
<td>Fluorescence Polarization detection for fluorescin- or rhodamine-like labels Using specific LED and EX/EM filters for 6- to 1536-well plates</td>
<td>0200-7009POS</td>
<td>Fluorescein FP EX 485 nm, EM 535P and 535S nm Rhodamine FP EX 535 nm, EM 595P and 595S nm</td>
<td>96-10 mP 384-1.5 mP 1536-2.0 mP</td>
<td>96-well: 3 mP 384-well: 4 mP 1536-well: 6 mP</td>
<td>1</td>
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<tr>
<td>Custom Solutions</td>
<td>Custom cartridges are available and designed to meet your specific research needs</td>
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