SoftMax Pro 6 Microplate Data Acquisition and Analysis Software

Key Features

- Simple and customizable assay setup

- Flexible and powerful data analysis

- Easy export to Excel

- Leading robotic systems integration capabilities

- Extensive user community

- Optional validation tools

- Complete FDA 21 CFR Part 11 compliance tools

SoftMax® Pro Software offers comprehensive data capture, reduction and analysis capabilities for the wide selection of microplate readers from Molecular Devices. An industry-recognized software with over 100,000 users world wide is built on over 25 years of experience and user feedback from pharmaceutical, biotechnology, academia, hospital, and government laboratories.

With over 140 ready-to-run protocols for life science research and drug discovery assay development and screening, scientists can be up and running in minutes. For unique research needs, SoftMax Pro Software offers protocol setting flexibility and powerful data analysis features. The sophisticated formula writing option is now simplified with Syntax Helper providing maximum flexibility with minimal effort.

Some of the key highlights in SoftMax Pro 6 Software include:

- Redesigned look and feel to have you up and running in minutes

- Clear results' display with 3-D graph feature

- Simplified formula writing with Syntax Helper

- Customized reporting with image import options, live display of mini-graphs and tables

- Most robust reading and data analysis package available with plate cloning and additional curve fits

- Additional instrument support with controls for SpectraMax® Paradigm® and FilterMax™ Systems

- Peace of mind with built-in data recovery feature

- User community for protocol sharing and exchanging tips and tricks with other experienced users

Two editions to meet your needs

SoftMax Pro 6 Software is available in two editions. Standard edition has the reader support, data reduction and analysis features required for research, while the GxP version offers additional features optimized for GLP/GMP/GCP compliance guidelines. Additional validation tools are available to reduce the time, effort, and cost of validating Molecular Devices' microplate systems.

Simple, yet flexible and powerful

Simple setup

SoftMax Pro Software simplifies setting up your assays by providing:
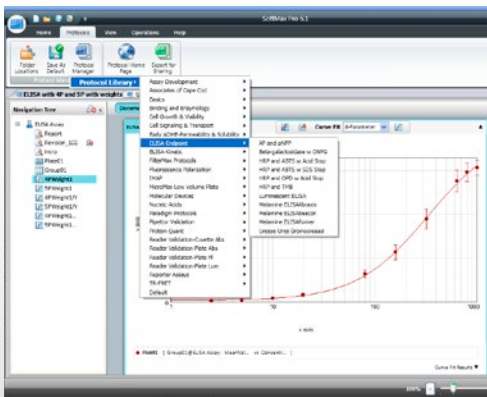
- Automatic instrument recognition
- Over 140 pre-written protocols for popular assays
- A wide variety of scan types: Endpoint, Kinetic, Spectral Scanning, and Well Scanning
- Standard data reduction settings are pre-selected as default
- The spectral optimization wizard for signal window optimization (on selected instruments)
- Patented PathCheck® Technology to automate well volume normalization for OD measurements (absorbance instruments only)
- Automatic data recovery feature
- Contemporary user community enabling protocol exchange and expertise sharing among our numerous users

Customizing options

SoftMax Pro 6 Software offers a variety of customizing options:
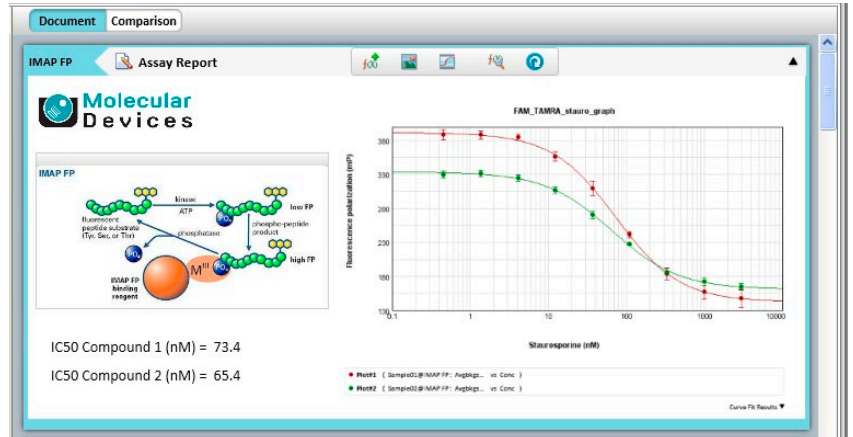
- Predefined calculation options for common data analysis functions
- Easy export to Microsoft Excel

Customize notes

In SoftMax Pro 6 Software, the Note section allows for image display, and graphs and tables with automatic data refresh function. Custom reports can now be saved as part of the protocol itself.

- Instrument settings and plate read area can be adjusted to suit your experiment's needs
- Custom data reduction settings can be selected for optimal signal selection
- Full reports, with font flexibility, and live mini-tables and graphs are now available within the Notes section to simplify the result sharing experience
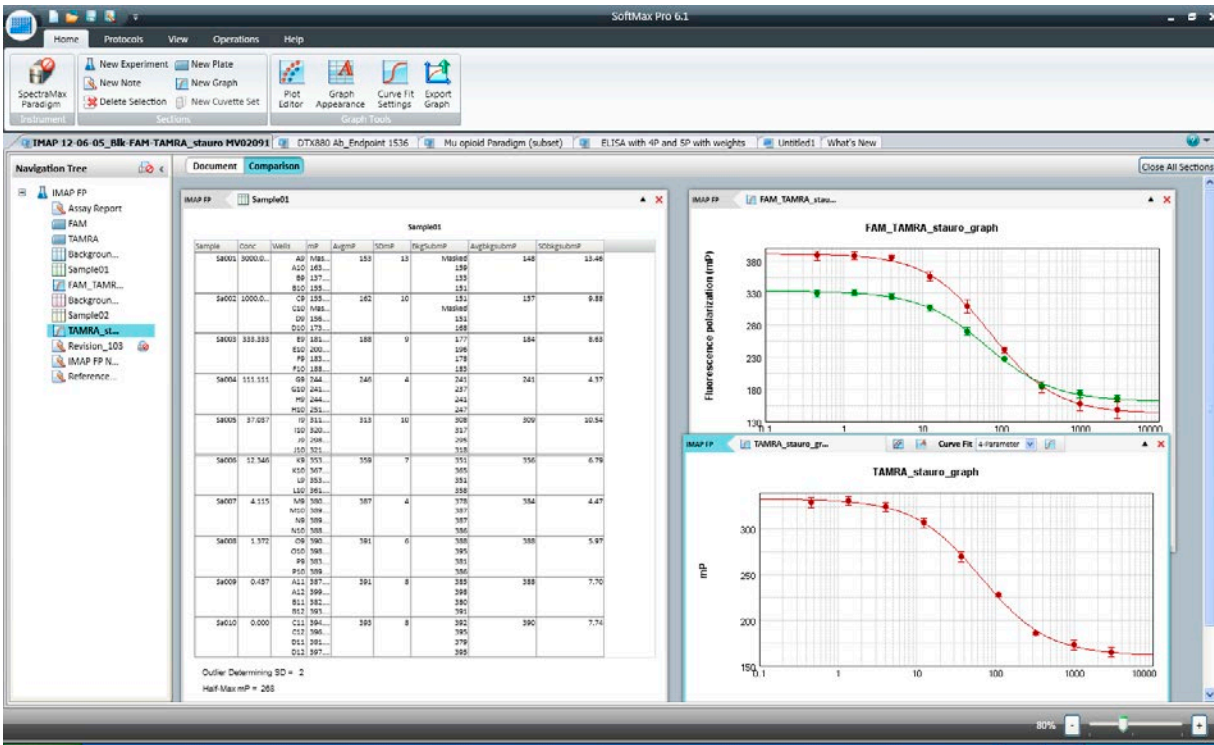
Flexible calculations and formulas

Use the extensive set of predefined Reductions, Columns, and Summary formulas, or create custom calculations with ease thanks to the Syntax Helper.
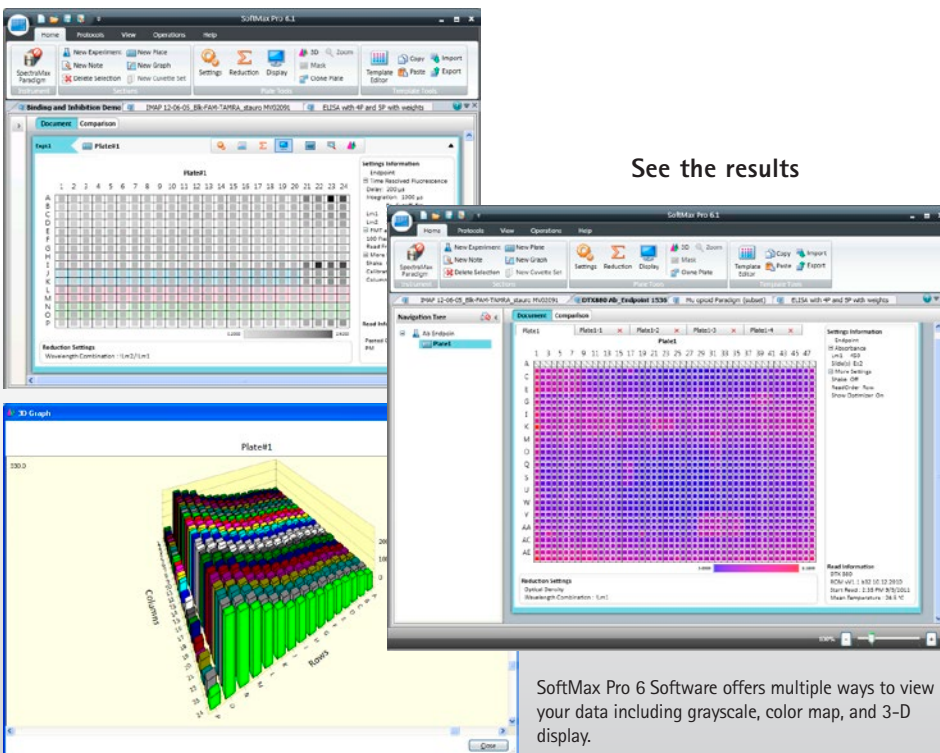
- Perform extensive mathematical calculations within and across multiple columns of data
- Apply a single standard set across multiple plates to perform cross-plate analysis and interpolation
- Easily analyze common calculations like EC_{50} and Z-factors to identify potency and assay quality
- Apply Chi-squared and F-test statistics to PLA
- Clone your plate data for multiple data reduction options
- Graph your results with 18 curve fit options

Full experimental control

SoftMax Pro 6 Software helps organize and view experimental data in an easy, logical fashion. It offers full control to add, move, or delete sections, change font styles, and much more.

- Access curve fit parameters in formula tables
- Change data calculations easily using Reduction menu items
- Include multiple plates, cuvettes, graphs, analysis tables, and notes in the same data file
- Display data as OD, RFU, RLU, reduced number, grayscale, color map, or in 3-D
- Combine absorbance and fluorescence data to calculate a single result
- View side-by-side graphs and tables from different sections of your experiment

Select ready–to–read protocols

SoftMax Pro 6 offers over 140 pre-written protocols and more are available online as part of the SoftMax Pro Software User Community.

View your data in multiple ways

View the data

SoftMax Pro 6 Software enables multiple data viewing options among them the Comparison View allowing users to view multiple sections of their experiment side by side.

See the results

SoftMax Pro 6 Software offers multiple ways to view your data including grayscale, color map, and 3-D display.

Tailored data analysis

No need to waste time exporting data to external applications for analysis. In addition to the more than 140 predefined experiment protocols, use the straightforward yet powerful programming capabilities of SoftMax Pro 6 Software to quickly analyze data.

- Perform multiple calculations on one data set with the Plate Cloning option
- Analyze data in a single plate, across multiple plates, or between different groups
- Use comparison view to look at multiple sections of your experiment side-by-side
- Zoom into desired wells, then adjust reduction parameters while collecting real-time data for Kinetic and Spectral Scans
- Report data using conditional formulas and apply variable weighting
- Create results summary reports with live mini-graphs and tables

Powerful compliance tools

SoftMax Pro 6 GxP Software provides FDA 21 CFR Part 11 compliance tools in conjunction with data acquisition and analysis for 20+ Molecular Devices microplate readers:

- Electronic signature support for verification, authorization, and approval

- Powerful user management options with controlled user access; multiple administrators; granular control on user permissions and remote administration of user accounts files

- User license control for increased security

- Password aging

- Log on failure lockout and automatic idle log out

- Off line usage and guest access

- Audit Trail to track and record actions

- TCP/IP-based hosting of User Accounts files

- Centralized site-license administration

Achieve GxP compliance

SoftMax Pro GxP Software contains features designed to assist a company's validation program for compliance with FDA 21 CFR Part 11 requirements including: electronic signatures, data and administrative audit trails, user management, and password aging.

Faster, easier validation

Optional hardware and software validation tools are designed to speed and simplify the validation process by making it easier to demonstrate compliance of data collection and analysis. Available tools include:

- All-inclusive software validation package for SoftMax Pro Software
  - Instructions and worksheets for Installation Qualification (IQ)
  - Instructions and worksheets Operational Qualification (OQ) for routine calculations and important curve fits including Parallel Line Analysis
  - Details on SoftMax Pro GxP Software features for implementation of FDAs 21 CFR Part 11 compliance requirements
  - Molecular Devices Software Life Cycle Process (SDLC); Quality assurance procedures and policies

- Validation Plates for precise optical verification of microplate readers with detailed protocols and calculations

- On-site service for IQ-OQ and preventive maintenance by a certified field service engineer that includes:
  - A complete qualification report with calibration certification on printed or digital copy
  - Compliance to 21 CFR Part 11 requirements with electronic signatures with date/time stamps
  - Instant results with automated calculations built into the protocols for error free procedure
  - Preventive maintenance is performed to assure the best working condition for the microplate reader

Robotics and LIMS integration

By supporting the latest Windows Communication Foundation (WCF) programming technology, SoftMax Pro 6 Software simplifies integration with leading robotics and LIMS providers. SoftMax Pro Software has been integrated by leading LIMS providers.

- Export plate data to LIMS via ASCII text or XML
- Leverage the command interface to automate SoftMax Pro Software functionality
- Communicate with plate and liquid handling, plate moving, and storage robots
- Import LIMS template information
- Utilize abundant sample source code in C++
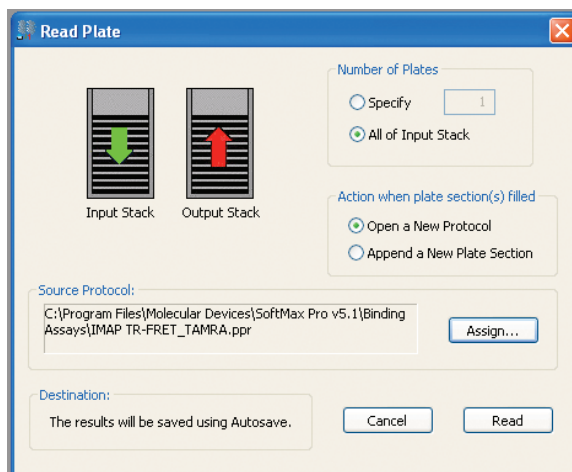
A complete package

For over 25 years SoftMax Pro Software has offered industry-leading support for more than 100,000 users. The ease of use and continuous improvement of the software has ensured a loyal customer base.

- Over 140 predefined assay protocols to get you up and running fast
- Context sensitive application help for quick access to related help topics
- Single software for data acquisition and data analysis eliminate the need for data exporting
- Formatting flexibility of Reporting section simplifies result sharing

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- Kinetic Assays
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QIAGEN instruments

Titertek

Thermo ELECTRON CORPORATION

SoftMax Pro Software has been integrated by many leading robotics and LIMS partners, enabling both data analysis and instrument control in automated environments.

Automate with StakMax Microplate Stacker

SpectraMax Absorbance, Fluorescence, Luminescence, and Multi-Mode Readers can be integrated with the StakMax® Microplate Stacker. System setup and calibration are controlled from within SoftMax Pro 6 Software.

System requirements

Minimum system requirements
- Computer with a 2GHz or faster processor
- 2GB RAM
- 100MB of available hard disk space
- 1024 x 768 or higher-resolution display
- CD-ROM Drive
- RS-232 serial port or USB 2.0 port with a Keyspan USB-to-serial adapter
- Windows XP, 32-bit (x86), with Service Pack 3
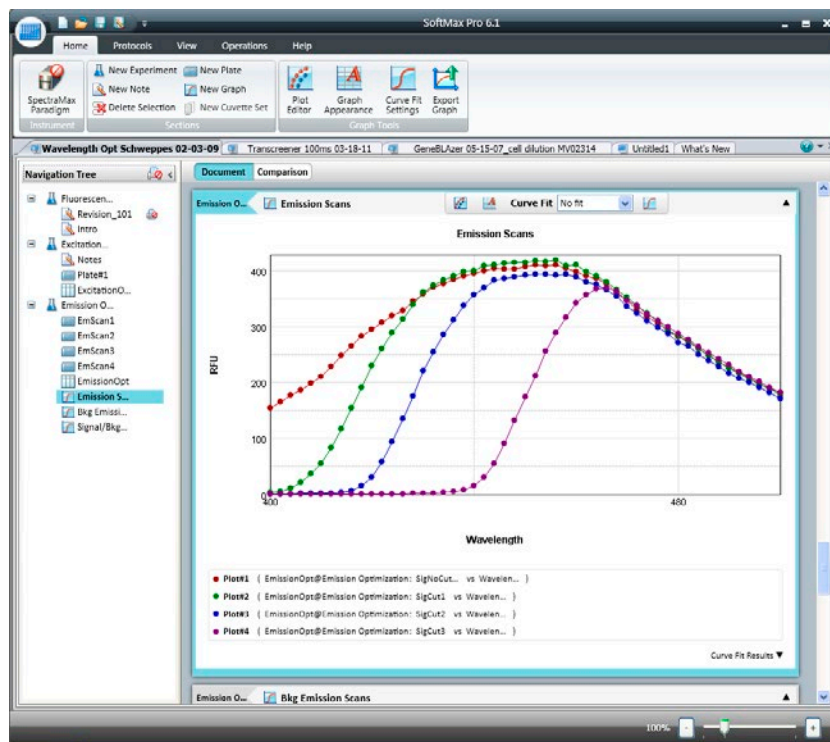- Windows 7, 32-bit or 64-bit (x86 or x64)
- .NET Framework 4.0*

Recommended system requirements
- Computer with a 2GHz or faster processor and quad-core or higher CPU**
- 4GB RAM**
- 500MB of available hard disk space
- 1280 x 1024 or higher-resolution display
- DVD-ROM Drive
- RS-232 serial port
- Windows 7, 32-bit or 64-bit (x86 or x64)
- .NET Framework 4.0*
- Internet Connection

* .NET Framework 4.0 is installed automatically by the SoftMax Pro Software installer if necessary.

** If running in a virtual machine, Molecular Devices recommends a quad-core or faster processor with at least 6GB RAM.

SoftMax Pro 6 Software

SoftMax Pro 6 Software—the easiest to use yet most powerful microplate data acquisition and analysis software available.

Molecular Devices