



EMax Plus Microplate Reader

Visible Absorbance Reader

BENEFITS

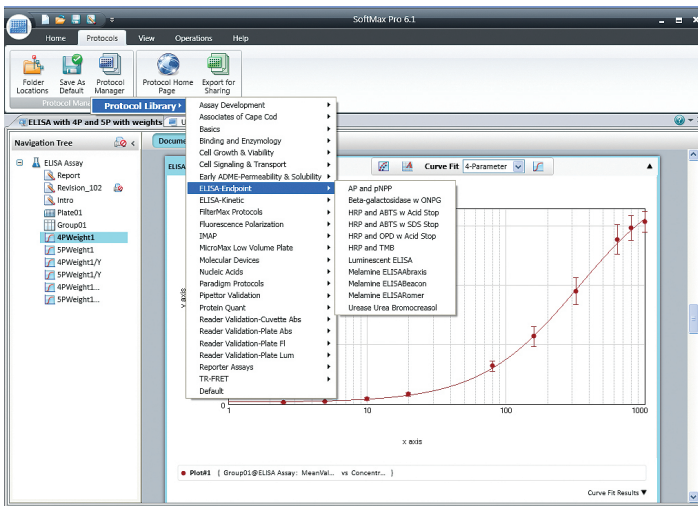
- **8 filters come standard to cover wide range of applications**
- **Compact footprint**
- **Pre-defined protocols with SoftMax® Pro Software**
- **Walk-up useability**

Introduction

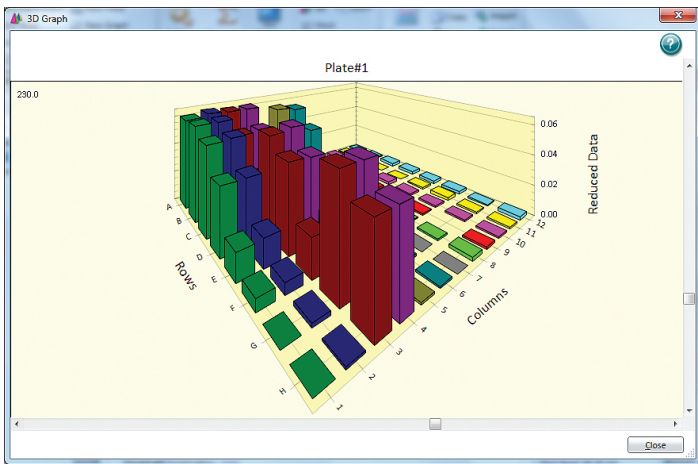
The EMax® Plus Microplate Reader is designed to be a versatile and robust microplate reader for research laboratories. Eight filter modes enable applications such as protein quantification, cell viability and ELISA. The EMax Plus reader measures flat and round 96-well microplates. Accurate measurements are ensured by automatic lamp calibration prior to each reading. SoftMax® Pro Data Acquisition and Analysis Software provides integrated instrument control and data analysis. Visualize acquired data as grayscale or color map images, 3-D graphs, kinetic plots, or reaction rates. Powerful curve fitting protocols and statistical analysis are included.

Filter modes	
Assay	Filter
BCA	562 nm
Bradford	595 nm
Cell density	620 nm
Lowry	650 nm
MTT	570 nm
OPD	492 nm
PNPP	405 nm
TMB	450 nm
XTT	492 nm
Reference wavelength	620 nm

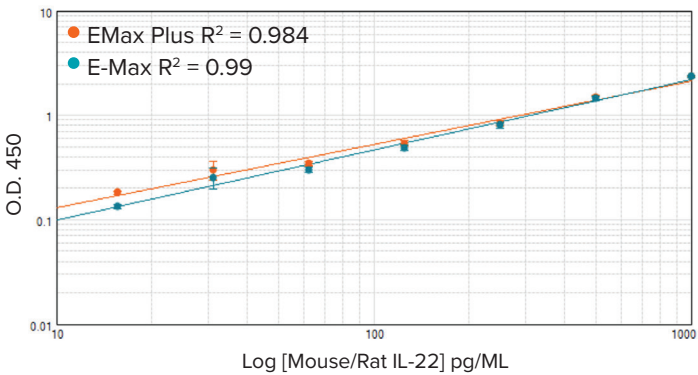
Eight filter modes for a variety of applications.



Select ready-to-read protocols.



See the results. SoftMax Pro Software offers multiple ways to view your data including color and 3-D mapping.



Absorbance Reader comparison: ELISA assay.

The power of SoftMax Pro Software

Simple setup

SoftMax Pro Software simplifies setting up your assays by providing:

- Automatic instrument recognition
- Predefined protocols including those for endpoint and kinetic ELISA as well as for protein quantification such as BCS, Bradford, Lowry, DC protein and NanoOrange
- A wide variety of scan types: Endpoint, Kinetic, Spectral Scanning, and Well Scanning
- Standard data reduction settings are preselected as default
- Automatic data recovery feature
- Contemporary user community enabling protocol exchange and expertise sharing among our numerous users

Customizing options

SoftMax Pro Software offers a variety of customizing options:

- Discontinuous kinetics feature for pausing and resuming kinetic reads
- Predefined calculation options for common data analysis functions
- Easy export to Microsoft Excel
- 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

Mouse/Rat IL-22 Quantikine ELISA comparing EMax Plus

A Mouse/Rat IL-22 Quantikine ELISA from R&D systems was used to compare performance of the EMax Plus and the EMax absorbance plate readers. An IL-22 standard curve was prepared and a sandwich ELISA performed using the MultiWash+ plate washer in strip mode to wash the wells. After reading the ELISA plate on both readers, each standard curve was nearly identical. A control well was set up to verify the accuracy of the standard curve. In the case of both readers, the standard was within the range described with the kit (data not shown).

Technical specifications	
Lamp source	Tungsten halogen
Measurement range	0–3.3 OD
Reproducibility/precision	0.25% at 1.0 OD at 450 nm
Accuracy	0.5% at 1.0 OD at 450 nm
Standard filters	405, 450, 492, 562, 570, 595, 620, and 650 nm
Wavelength selection	Filters
Wavelength range	400–750 nm
Plate types	Flat and round 96-well plates
Data output	Export to PC
Detection system	Single channel silicon photodiode
Reading speed	25 seconds
Software	SoftMax Pro Software
Shaking	None
Temperature control	None
Linearity	0.25% and 0.0025 OD from 0.1 – 2.5 OD at 492 nm
Computer interface	USB 2.0
Optical system	Filters
Power requirement	External power supply: 100-240VAC; current rating 50/60 Hz, 1.5 A
Instrument dimensions (WxDxH)	31.5 x 18.2 x 43.5 cm, 12.4" x 7.1" x 17.1"
Weight	6.6 kg
Mode of operation	PC Control

Ordering information

Description	Part number
EMax Plus microplate reader	EMAX PLUS
Spare lamp	5032335

Contact Us

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Check our website for a current listing
of worldwide distributors.