



1/2 CENTURY OF BREAKTHROUGHS IN SPECTROSCOPY

*is proud to introduce its new microplate reader :*

# MP96



## A HIGH ACCURACY MICROPLATE READER WITH:

- 9 detectors technology, providing:
  - \*high speed measurements (3 seconds on 96 wells)
  - \*exceptional stability thanks to the reference beam
  - \*extremely long life lamp (lit only for readings)
  - \*accuracy and reproducibility on a large photometric range (0 to 4A)
- monochromator : automatic 8-filters wheel
- high flexibility : built-in temperature control and incubation
- microplate shaking (user selectable speed and duration)
- just forget old-fashioned paper printouts, small LCD displays, as well as limited data and methods storage ! SAFAS MP96 is fully PC controlled, and includes a powerful and easy-to-use software. FDA 21 CFR part 11 version is optionally available, as well as IQ/OQ and Validation microplate.
- 2 versions: MP96, 400-950nm and MP96UV, 340-950nm

*... and overall, the highly reputed SAFAS quality and reliability*

**AN UNRIVALLED COST EFFECTIVENESS !**

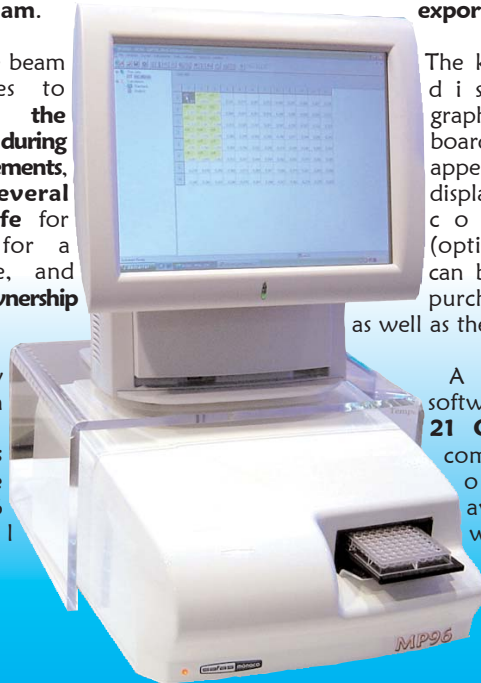
HIGH TECHNOLOGY UV-Vis SPECTROSCOPY

# A MULTIVALENT, RELIABLE and ACCURATE MICROPLATE READER

Thanks to its **9-detector technology**, not only the MP96 is able to read a **96-well microplate in less than 5 seconds (3 sec. in continuous mode)**, but also it has an **exceptional stability**, thanks to its reference beam which provides a **measurement quality similar to a double beam**.

The reference beam also enables to **switch on the source only during the measurements**, involving **several years of life** for the lamp for a classical use, and **very low ownership costs**.

That's why we grant an **exceptional 3 years guarantee** on the MP96 original source.\*



Example of SAFAS MP96 with optional touch-screen computer

Thanks to the **easy-to-use and powerful PC software** (in several languages) supplied in standard with the MP96, any kind of method can be created and saved, as well as results. You can define **replicates**, enter calculation formulas, and profit by **unlimited data-processing, export and storage**.

The kinetics can be **displayed graphically**, and in boards. The results appear on the big display of the **PC computer** (optional), which can be supplied or purchased locally, as well as the printer.

A version of software for **FDA 21 CFR part 11 compliance** is **optionally available**, as well as **IQ/OQ**.

Wavelengths are selected thanks to a **8 filters wheel; more than 20 standard wavelengths/filters** are available, and any other specific wavelength can be supplied on request.



**The filters are very easy to insert in the automatic wheel; 2 filters are supplied standard with the MP96, and additional ones are optional.**

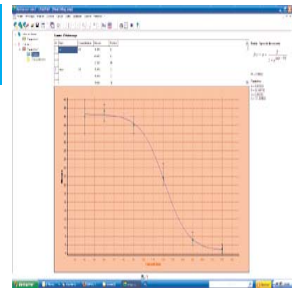
The extremely long life lamp is switched on **only during measurements**. It can be **easily replaced by the user, without requiring centering**.

## INCUBATION & SHAKING

For the best multivalence, **temperature control, incubation and shaking are supplied as a standard**. The time and temperature of incubation, as well as the shaking intensity, are user selectable and can be stored in the method.

## CALIBRATION

**Linear and non-linear regressions** can be achieved for your calibration curves, and several **replicates** can be entered for the standards, as well as for the samples.



<b>Wavelengths.....</b>	<b>MP96:</b> 400 to 950 nm, <b>MP96UV:</b> 340 to 950nm; with a 8-filters automatic wheel
<b>Monochromator.....</b>	2 to 8 high-grade interferential filters (405 and 600nm supplied standard, others are optional)
<b>Wavelengths available.....</b>	340, 380, 405, 420, 450, 490, 500, 505, 510, 540, 546, 550, 570, 578, 590, 595, 600, 620, 630, 650, 670, 690 and 700 nm (any other value available upon request)
<b>Bandwidth.....</b>	about 10 nm on each filter
<b>Data display.....</b>	wide color screen of the optional PC computer (powerful PC software supplied standard)
<b>Detection technology.....</b>	9 photodiodes including one reference detector for high stability and long life lamp
<b>Source.....</b>	very long life halogen lamp, switched on only during measurements, easy to replace
<b>Typical lamp life.....</b>	about 1 Million microplates
<b>Measurement range.....</b>	0 A to 4 A, exceptional stability thanks to <b>double-beam mode</b>
<b>Linearity and accuracy.....</b>	<2% from 0 to 3A, accuracy<+/-0.005A at 0.25 A (measured on solid standards)
<b>Repeatability.....</b>	CV% <0.25% up to 2 Abs, and CV% <1.0% from 2 to 3 Abs (on solid standards)
<b>Photometric drift.....</b>	fully compensated by the reference beam of the 9th detector
<b>Measurement resolution.....</b>	0,001 A
<b>Time for reading a microplate. 3 seconds (at 1 wavelength on the 96 wells)</b>	
<b>Plate shaking.....</b>	supplied standard, linear with a choice of 3 speeds, programmable from 1 sec to 1 hour
<b>Temperature control.....</b>	supplied standard, for incubation from ambient temperature +3°C up to 50°C
<b>Power supply.....</b>	100 to 240 Volts, 50 or 60 Hertz, 95 Watts
<b>Weight and dimensions.....</b>	15 Kg, L 38 cm x h 18 cm x W 43 cm

Pictures and features are not contractual. They are subject to change without notice. The external PC computer and printer ARE NOT INCLUDED AND ARE OPTIONAL..

\*The guarantee of 3 years on the original source of the instrument does not include packaging, shipment and customs costs (if any), nor workmanship; it exclusively covers the supply of a new lamp and is granted only during a period of 3 years after the date of delivery of the instrument.



HIGH TECHNOLOGY SCIENTIFIC AND MEDICAL INSTRUMENTS SINCE 1952

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