



manufacturer of high tech scientific instruments since 1952

is proud to introduce its innovative microplate reader :

MP96



A HIGH ACCURACY MICROPLATE READER WITH:

- 9 detectors technology, providing:
 - *high speed measurements: 3 seconds to read 96 wells, fastest in the world!
 - *exceptional stability thanks to the reference beam
 - *extremely long life lamp (lit only during measurements)
 - *accuracy and reproducibility on a large photometric range (0-4A at any WL)
 - *Ultra-Fast kinetics optionally available : up to 100pts/sec on 8 wells
- monochromator : automatic 8-filters wheel with long life filters
- built-in temperature control and incubation from ambient temperature +3°C up to 55°C by steps of 0.1°C with double-side control for high homogeneity; user-programmable gradient mode to eliminate internal condensation when the microplate is inserted with a cover
- 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 windows 10 software. FDA 21 CFR part 11 version is optionally available, as well as IQ/OQ and Validation microplate.
- 2 versions covering UV-Vis range: MP96: 400-750nm and MP96UV: 340-950nm
- can be robotized with Web Service, high reliability even for intensive use 24/24

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

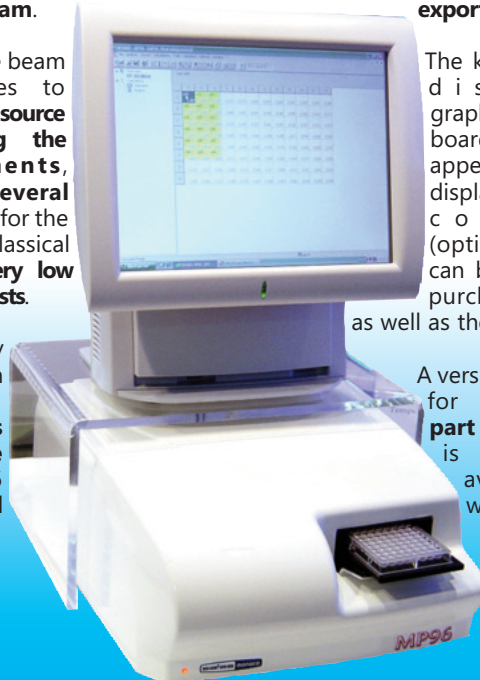
UNRIVALLED SPEED and COST EFFECTIVENESS !

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

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.



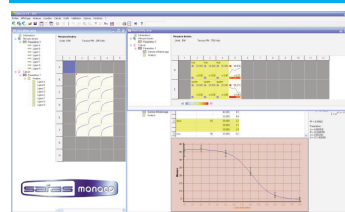
The filters are very easy to insert in the automatic wheel; 2 filters are supplied standard with the MP96, and additional ones are optional.

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 up to 55°C with gradient, 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 or non-linear regressions can be achieved for the calibration curves, many fittings are available. Powerful software enabling also to use several **replicates** for the standards, as well as for the samples.

Wavelengths in UV-Vis range..	MP96: 400 to 750 nm, MP96UV: 340 to 950nm; both with a 8-filters automatic wheel
Monochromator.....	2 to 8 high-grade interferential filters (405 and 600nm supplied standard, others are optional)
Wavelengths available.....	340, 380, 405, 420, 450, 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)
Bandwidth.....	about 10 nm on each filter
Data display.....	wide color screen of the optional PC computer (powerful PC software supplied standard)
Detection technology.....	9 photodiodes including one reference detector for high stability and long life lamp
Source.....	very long life halogen lamp, switched on only during measurements, easy to replace
Typical lamp life.....	about 1 Million microplates
Measurement range.....	0 A to 4 A, exceptional stability thanks to double-beam mode
Linearity and accuracy.....	<2% from 0 to 3A, accuracy <+/-0.005A at 0.25 A (measured on solid standards)
Repeatability.....	CV% <0.25% up to 2 Abs, and CV% <1.0% from 2 to 3 Abs (on solid standards)
Photometric drift.....	fully compensated by the reference beam of the 9th detector
Measurement resolution.....	0,001 A, amazing stability and drift about ±0.0005A over hours
Time for reading a microplate.	3 seconds (at 1 wavelength on the 96 wells), max time difference between wells
Plate shaking.....	supplied standard, linear with a choice of 3 speeds, programmable from 1 sec to 1 hour
Temperature control.....	incubation from ambient temperature +3°C up to 55°C (steps 0.1°C) with gradient mode
Power supply.....	100 to 240 Volts, 50 or 60 Hertz, 95 Watts
Weight and dimensions.....	15 Kg, L 38 cm x h 18 cm x W 43 cm

OPTIONAL ROBOTIZATION WITH INNOVATIVE WEB SERVICE

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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