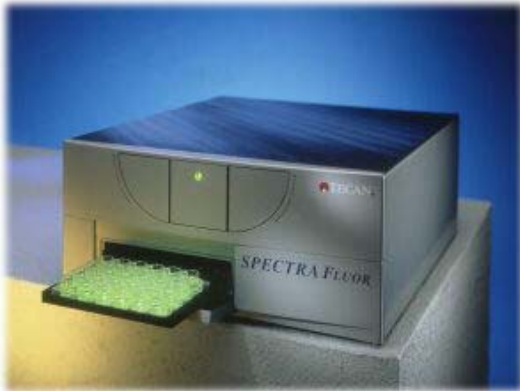


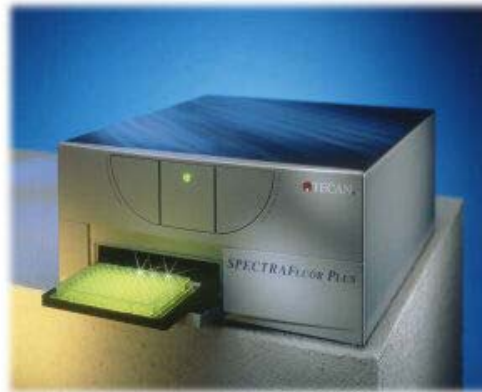
TECAN - Fluorescence Instrumentation



The *SPECTRAFLUOR* and the *SPECTRAFLUOR PLUS* - two instruments - shared features - one common theme.

Standard Features

- Different detection techniques with one instrument
- Change of measurement directions (top / bottom) by software
- Simple filter handling (front-loading system and filters in filter slides)
- Thermal incubation
- Optimized robot - compatibility
- Measurement of all available plate types (from Petri dish to high density plates)



Operating Overview

Pulsed excitation light is provided by a Xenon flash lamp. Dual optical channels allow measurements from above or below the plate by mouse-click. Light to and from the samples is focused by a lens and high quality excitation and emission filters are easily accessible from the front of the instrument. Each filter slide holds up to four filters and values for a total of eight slides can be stored. The emission signal is measured by a highly sensitive PMT.

TECAN aims to provide the best possible support for your specific applications:

- Cell Growth
- Cell Adhesion
- Viability Testing
- Transmigration / Invasion
- Ion flux

Software Supports:

- multiple measurement points per well
- multiple labeling experiments
- kinetic measurements

Software Choices:

Instrument control and data reduction software packages for Windows or Macintosh operating systems. *XFLUOR* provides instruments control and data acquisition using MS-Excel™.

Instruments Specifications

	<i>SPECTRAFLUOR</i>	<i>SPECTRAFLUOR Plus</i>
General		
Measurement speed	< 30 sec. for a standard 96-well plate	< 30 sec. for a standard 96-well plate
Plate shaking	linear or orbital in 3 different speed	linear or orbital in 3 different speeds
Fluorescence		
Wavelength range	360 – 700 nm	230 - 700 nm
Sensitivity	< 3 pg fluorescein / well (Vol. 200µl, black plate, 100 flashes)	< 1,5 pg fluorescein / well (Vol. 200µl, black plate, 100 flashes)
Time resolved measurements	integration time adjustable from 20-2000µsec in 1µsec steps	integration time adjustable from 20-2000µsec in 1µsec steps
Plate formats	up to 384 well plates	up to 1536 well plates
Absorbance		
Wavelength range	230 – 750nm	230 - 1000 nm
Accuracy	0-2.0 OD +/- 2 % and +/- 0.010 OD at 492nm	0 - 2OD: +/- 1% +/- 0.010OD 2.0 - 3.0 OD: +/- 1.5% +/- 0.010 OD
Plate formats	up to 384 well plates	up to 384 well plates
Glow Type Luminescence		
Wavelength range	---	400 – 700 nm
Sensitivity	---	0.4 x 10 ⁻⁶ activity units Alkaline Phosphates (~200fg at 2000 activity units/mg)
Plate formats	---	96 well plates

Further Information:

- [Advanced Microplate Fluorometry](#)
- [List of Application Notes](#)
- [Literature References Page](#)

For robotic microplate handling see [Twister](#) product page.

For further information please fill in our [information request form](#) or refer to our list of [worldwide locations](#) for a TECAN representative near you.

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