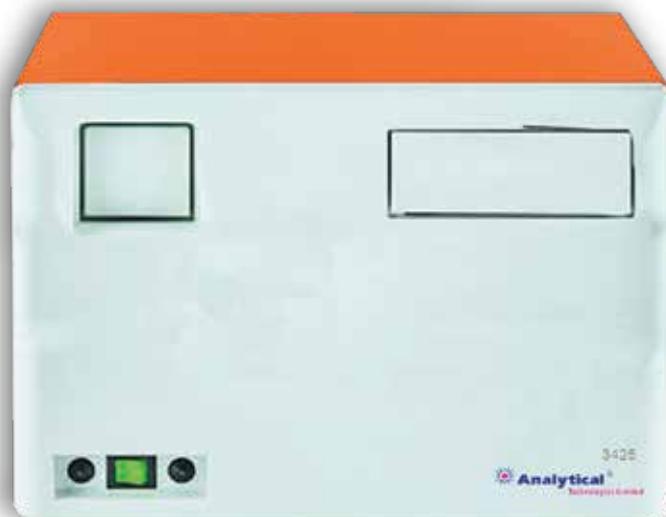


3942

Multimode Microplate Reader



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Analytical Technologies Limited

An ISO 9001 Certified Company

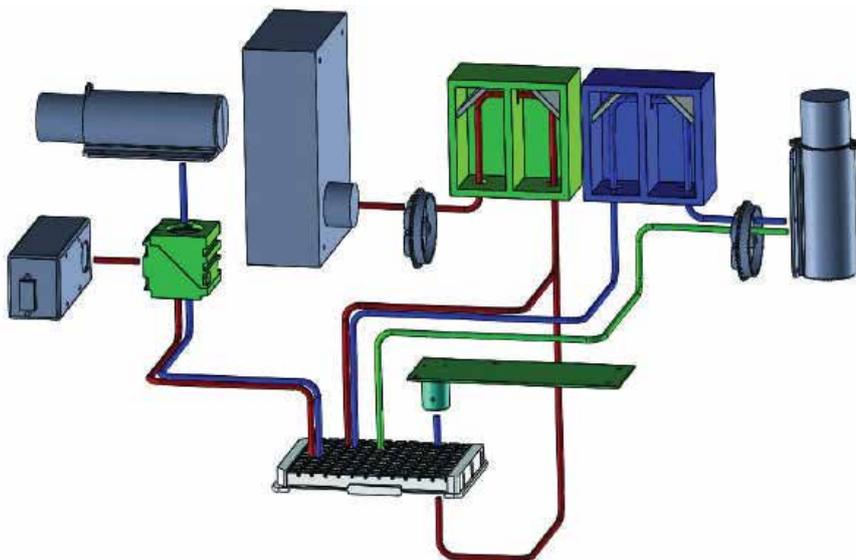
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High-End Multimode Microplate Reader (Monochromator base Absorbance + Monochromator base Fluorescence + Filter base Fluorescence + Luminescence)

It has two main detecting functions. 3942 has Fluorescence measurement with Monochromator excitation and emission module, and Fluorescence measurement with the Dichroic Fluorescence measurement module. In Fluorescence measurement, the monochromator captures EX / EM wavelengths without filters. It is straightforward to measure, and even if the wavelength to be measured is different, there is no need to purchase filters separately. Users do not need to buy a filter; they change the wavelength in the UI. Dichroic Fluorescence measurement module offers unique features. The most sensitive Fluorescence measurement technology, and ideal for measuring low-concentration samples.

Features:

01. Monochromator-based UV-Vis Absorbance
02. Monochromator-based Fluorescence and Dichroic Fluorescence
03. Time Resolved Fluorescence (TRF) and Fluorescence polarization.
04. 2 μ L low volume nucleic acid quantification
05. Cell-friendly orbital Shaking and advanced Incubator design up to 45°C
06. Dual reagent injectors for inject/read applications
07. Provides software with powerful diverse functions



Specification Description:

Absorbance, Luminescence & Fluorescence Microplate Spectrophotometer

- CE marked
- ISO 9001 / ISO 13485
- RoHS

Specification:

General (Multimode Microplate reader)

Detection Modes	UV-Vis Absorbance / Fluorescence intensity / Luminescence / Fluorescence polarization / Time-Resolved Fluorescence
Read Methods	End point, kinetic, spectral scanning, well-area scanning
Microplate Types	6- to 384-well plates
Others	Nano-VC Microvolume plate
Temperature Control	Up to 45°C ± 0.2°C at 37°C
Shaking	Linear, Orbital
Software	(21 CFR part 11 compliance software)

General (Multimode Microplate reader)

Light source	Xenon flash lamp
Detector	Photodiode
Wavelength selection	Monochromator
Wavelength range	230 – 999 nm, 1 nm increments
Dynamic range	0 – 4.0 OD
Resolution	0.0001 OD
Pathlength correction	Yes
Monochromator wavelength accuracy	±2 nm
Monochromator wavelength repeatability	±0.2 nm
OD linearity	<1% from 0 to 3.0 OD
OD repeatability	< 0.5% at 2.0 OD

Fluorescence Intensity

Monochromator Fluorescence Intensity

Light source	flash lamp	Dynamic range	>7 decades
Wavelength selection	Monochromator (Bandwidth Variable Option)	Sensitivity	Fluorescein 2.5 pM top / 5pM bottom(96well plate)
Wavelength range	250–700nm(Options 850nm)	Detector	PMT

Filter Fluorescence Intensity (Dichroic Intensity)

Sensitivity	Top Fluorescein 0.25pM(96-well plate)	Light source	Xenon flash lamp
Wavelength selection	Filters	Dynamic range	>7 decades
Wavelength range	300 – 800 nm	Detector	PMT

Fluorescence Polarization

Sensitivity	Xenon flash lamp
Wavelength selection	Filters
Wavelength range	400 – 700 nm
Detector	PMT

Luminescence

Sensitivity	10 amol ATP(filter)/20 amol ATP(monochromator)
Wavelength selection	250–700 nm(Options 850nm)
Dynamic range	>7 decades
Detection system	Low noise PMT

Time-Resolved Fluorescence

Light source	Xenon flash lamp
Detector	PMT
Wavelength selection	Filter

Temperature control & Shaking

Temperature control	Incubation up to 45 °C, ±0.2°C at 37°C
Shaking	Linear, Orbital

Physical Characteristics

Connectivity	1USB, 1 RS232 for external PC control	Weight	25 kg
Power	100–240 Volts AC.50/60Hz	Shelf Life	2yrs(when direct or ambient sunlight, extreme temperature is avoided)
Dimensions	408w x 390L x 240H		

Applicable optional products

Reagent Injector	<ul style="list-style-type: none"> •2 Syringe pumps •5-1000µL -> 15 ~ 1000µL •Minimum prime Vol. 1.1mL. 100µL with back flush
Read methods	<ul style="list-style-type: none"> •2~ 2.5µL total 24 wells •2.5ml cuvette holder •DNA/RNA, Lysozyme, DsDna, and Etc
Microplate types	<ul style="list-style-type: none"> •Absorbance linearity and accuracy QC •Luminescence linearity and crosstalk QC •Fluorescence linearity QC

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Maldi TOF



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Chromatograph



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3068



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HPTLC



Ion Chromatograph



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HPLC



HPLC



Column



DLS



Water purification
system

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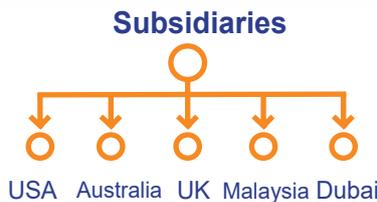
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