



INNO-S™

(All in One)

Absorbance, Luminescence
& Fluorescence Microplate Reader



Made to expand your study
with performance & flexibility

Technical Details

Detection modes	Fluorescence, time-resolved fluorescence , luminescence, UV-Visible absorbance
Read Methods	End point, kinetic, spectral scanning, well-area scanning
Microplate types	6- to 384-well plates , NANO-V™ & NANO-VC™ plate(Optional product)
Temperature control	4-Zone™ incubation up to 50°C; ±0.2°C at 37°C
Shaking Function	Linear & Orbital
Software	INNO-X™ Microplate Reader & INNO-X™ SECURE (for 21 CFR Part 11 Compliance) (Option)
Automation	Compatible with BioStack™ and 3rd party automation

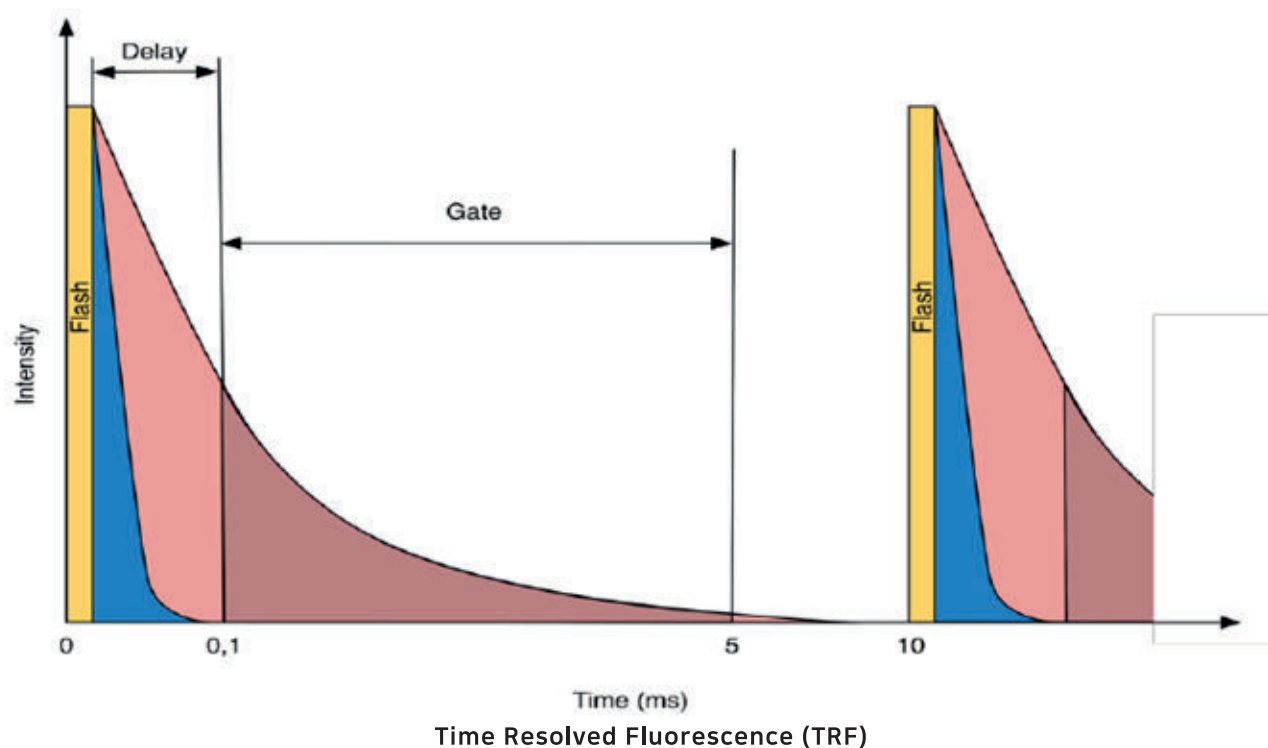


Monochromator-based optical system INNO-S™ is here.

- INNO-S™ has complete of three main detecting methods. Since INNO-S™ is a monochromator-based microplate spectrophotometer absorbance detecting function requires no filters.
- The other two main methods are filter based fluorescence and luminescence.
- Using xenon lamp and monochromator INNO-S™ allows you to measure from 200 to 999 nm freely at your choice of 1nm increment. Xenon lamp will serve the instrument semi permanent life time which allows the users to experience comfort since lamps do not need to be replaced such as halogen lamps.
- Fluorescence measurement is supported with xenon lamp and fluorescence filters and this is the only entry model that support **TRF (Time Resolved Fluorescence)**.
- Supporting dual injector with variety of shaking technologies and incubating function up to 50°C.
- Also INNO-S™ is supporting End point, Kinetic, Area Scanning, and Spectral scanning along with the Incubation system and Injector function. With these functions INNO-S™ offers versatility measurement options that researchers need in their laboratories.
- Support from 6 to 384 well plates.
- Using INNO-X™ SECURE S/W offers high performance software and safety reliable security for personal data with CFR Part 11 Compliance function.

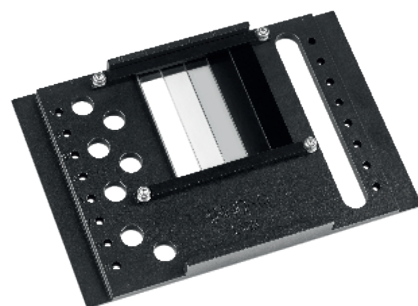
Typical Applications

- Nucleic acid quantification
- Protein quantification
- Enzyme kinetics
- ELISAs
- Genetic analysis
- Cell proliferation
- Cytotoxicity
- Drug absorption and metabolism
- Food safety
- Environmental monitoring



Optional Accessories

- Dual Reagent Injector Module
- INNO-X™ Secure
(for 21 CFR Part 11 Compliance)
- Absorbance Test Plate (INNO-Q)
- NANO-V™ & NANO-VC™ plate



INNO-Q (Option)

24 well DNA/RNA Quantitative measurement

Using 2 μ L of DNA/RNA samples, quantitative measurement is possible. This also helps the users to be able to understand or interpret the unknown or unspecified samples by



NANO-VC (Option)

measuring from 240 to 320 nm with 2nm steps.

Total of 24 2 μ L wells allow you to measure variety types of samples at the same time.

DsDNA, RNA, ssDNA, 1Abs at 1cm = 1mg/ml

BSA, IgG, Lysozyme and other samples are measurable.

Specifications

Absorbance

Light source	Xenon flash lamp
Detector	Photodiode
Wavelength selection	Monochromator
Wavelength range	200 – 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

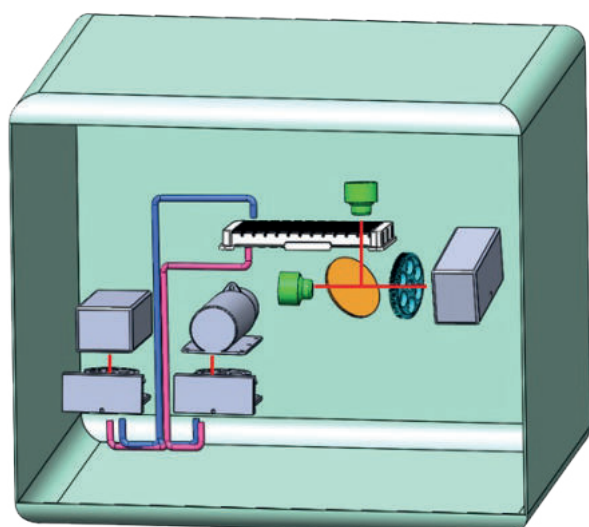
Sensitivity	Top and Bottom: Fluorescein 5 pM (1 fmol/well, 96-well plate)
Light source	Xenon flash lamp
Wavelength selection	Filters
Wavelength range	300 – 700 nm
Dynamic range	>6 decades
Detector	PMT

Luminescence

Sensitivity	10 amol ATP (flash) – Lum. and Abs./Lum. Configurations 30 amol ATP (flash) – Multi-mode Configurations
Wavelength range	300 – 700 nm
Dynamic range	>6 decades
Detection system	Low noise PMT

Main Features

- Monochromator-based UV-Vis absorbance
- Xenon Lamp and filter-based fluorescence detection for flexibility and performance
- Time Resolved Fluorescence (TRF)
- 2 μ L low volume nucleic acid quantification with NANO-V™ & NANO-VC™ plate(Optional)
- Cell friendly orbital shaking and advanced incubator design up to 50°
- Dual reagent injectors for inject/read applications
- Provides INNO-X™ software with powerful and diverse functions.
INNO-X™ SECURE(21 CFR Part 11 Compliance)



Time-Resolved Fluorescence

Light source	Flash
Wavelength selection	Filter

Reagent Injectors

Number	2 syringe pumps
Dispense volume	5 – 1000 μ L in 1 μ L increments
Minimum prime volume	1.1 mL, 100 μ L with back flush

Physical Characteristics

Connectivity	1 USB, 1 RS232 for external PC control
Power	100 – 240 Volts AC, 50/60 Hz
Dimensions	400x410x340 (mm)
Weight	27 kg

Regulatory

CE and RoHS compliant. ISO 9001 & ISO 14001

