



Microplate Reader

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INNO-H

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



Specification Description

Absorbance,
Luminescence & Fluorescence Microplate Spectrophotometer

Certifications

- CE marked
- ISO 9001 / ISO 13485 / ISO 14001
- RoHS

Specification

General (Multimode Microplate reader)

Detection Mode	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	INNO-X Ex / INNO-XS (CFR part 11 compliance software)

Absorbance

Light source	Xenon flash lamp
Detector	Photodiode
Wavelength selection	Monochromator
Wavelength range	230-999nm, 1nm increments

Fluorescence

Light source	Xenon flash lamp
Detector	PMT
Wavelength selection	Monochromator (Bandwidth Variable Option)
Wavelength range	250-700nm (Options 850nm)

Dichroic Filter Fluorescence

Light source	Xenon flash lamp
Detector	PMT
Wavelength selection	Filter
Wavelength range	250-700nm (Options 850nm)

Fluorescence Polarization

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

Luminescence

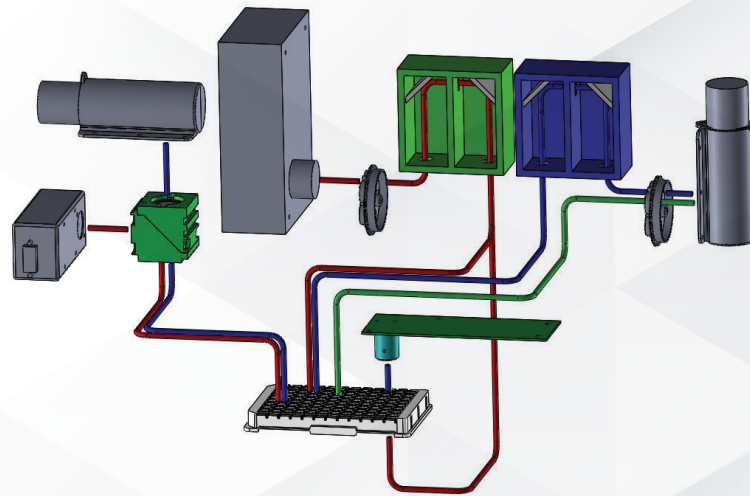
Sensitivity	10 amol ATP (Filter) / 20 amol ATP (Monochromator)
Wavelength selection	200-750nm (Options 850nm)
Dynamic range	>7 decades
Detection system	Low noise PMT

Physical Characteristics

Connectivity	1 USB, 1 RS232 for external PC control
Power	100-240 Volts AC. 50/60 Hz
Dimensions	408w x 390L x 240H
Weight	25kg

INNO-H

Monochromator and Dichroic Fluorescence optical structure



INNO-H has two main detecting functions. INNO-H 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.

Main 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 with NANO-V™ & NANO-VC™ Plate(Optional)
05. Cell-friendly orbital Shaking and advanced Incubator design up to 45°C
06. Dual reagent injectors for inject/read applications
07. Provides INNO-X™ Ex software with powerful diverse functions, INNO-X™ (CFR Part 11 Compliance)

Optional Accessories



INNO-QM (Option)

- Absorbance, Luminescence, and Fluorescence Q.C plate
- Abs - 9 Wells : 0.14 to 2.2 OD @ 450nm
- Fluo - 8 Wells : Visible Read EX 485nm / EM 530nm or EX 540nm / EM 590nm
- Lumi - 9 Wells : Approximate four-decade dynamic range standard
- Lumi Crosstalk - Provides the most challenging scenario



NANO-VC (Option)

24well DNA/RNA Quantitative measurement

Using 2 μ L of DNA/RAN samples, quantitative measurement is possible.

This also helps the users to understand or interpret the unknown or unspecified samples by measuring from 240 to 320 nm with 2nm steps.

A total of 24 2 μ L wells allows you to measure a variety type of samples at the same time.

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

BSA, IgG, Lysozyme, and other samples are measurable.

Specification

2 μ L Sample capacity	24 wells	Compatible model	All INNO-Lines
Cuvette capacity	1 slot	Optical path length	0.5 mm
Cuvette size	2.5 ml tube	Detection limit	2ng/pLdsDNA