

INNO-S Specification Description

(Absorbance, Luminescence & Fluorescence Microplate Reader)

● 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

Fluorescence Intensity	
Sensitivity	Top and Bottom: Fluorescein 5 pM (96-well plate)
Light source	HIGH POWER LED
Wavelength selection	Filters
Wavelength range	350 – 700 nm
Dynamic range	>6 decades
Detector	PMT



● Luminescence

Sensitivity	30 amol ATP
Wavelength range	190 – 720 nm
Dynamic range	>6 decades
Detection system	Low noise PMT

● Time-Resolved Fluorescence

Light source	HIGH POWER LED
Wavelength selection	Filter

● Temperature control & Shaking

Temperature control	Incubation up to 50 °c, +- 0.2°c at 37°c
Shaking	Linear & Orbital

● Reagent Injectors **(Not yet launched)**

Number	2 syringe pumps
Dispense volume	5 – 1000 µL in 1 µL increments
Dispense accuracy	±1uL , 2%

● 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	18.2 kg

● Regulatories

CE and RoHS compliant. ISO 9001 & ISO 14001



Authorized signatory

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INNO-S Product line Configurations

	INNO-S	INNO-SA	INNO-SF
Absorbance	√	√	
Fluorescence	√		√
Luminescence	√		√
Shaking	√	√	√
Incubation	√	√	√
TRF	√		√
Dual Reagent injector	√	√	√

INNO-S Fluorescence Filter List

NO	Filter NAME	EX Wavelength (nm)	EM Wavelength (nm)
1	CFP	426 - 450	502 - 538
2	GFP	457 - 487	502 - 538
3	FITC	467 - 498	513 - 556
4	YFP	466 - 497	524 - 544
5	CY3	498 - 523	566 - 614
6	TRITC	532 - 554	576 - 597
7	Texas Red	542 - 582	604 - 644
8	mCherry	542 - 582	603 - 678
9	CY5	604 - 644	672 - 712
10	CY5.5	635 - 675	696 - 736
11	DAPI	355 - 402	417 - 463
12	Lucifer Yellow	426 - 450	513 - 556
13	SpectrumGreen	465 - 500	517 - 537
14	Qdot525	415 - 455	518 - 533
15	Qdot605	415 - 455	598 - 613
16	Qdot625	415 - 455	618 - 633
17	Qdot655	415 - 455	648 - 663
18	SpectrumGold	524 - 544	588 - 586
19	SpectrumOrange	532 - 554	576 - 596
20	SpectrumRed	576 - 596	612 - 644

※ Highlighted in color "Yellow" are the two pairs of fluorescence filters that basically provided unless the customer requests to switch the provided filters to the other filters that are on the list above. Requesting different set of filters must be made at the P.I.

※ Also above list of filters is the basic filter specifications and the wavelength specifications of each filters may differ slightly then the specification shown above.

