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Greetings

LTEK CO., LTD has established in Gyeonggi-do, South Korea with innovative life science measurement equipment. Consisting specialized mechanical engineers who develops micro plate reader for bio medical field and global marketing sales assistants.

This powerful and life science laboratory targeting measurement device will always deliver fulfilling results to researches. LTEK is a global enterprise and starting to pierce through the global biomedical device market.

Marketing Goals



Customer centered

We deliver incomparable customer service
to fulfil and satisfy our clients



Trustworthy enterprise

Client's needs are
the number one priority



Attaining global businesses

We provide our
excellent services worldwide



Interminable development

Continuously develop our products for better

Performance and future needs

History



Completed development of Micro plate spectrophotometer in 2018

Successfully signed distribution contact with over 10 global enterprises since 2019 Launched newly developed INNO-M in 2019

2021~ 2022

2020

Completed development of Micro volume spectrophotometer(NANO drop) in 2020

Multi mode microplate spectrophotometer development completed in 2022 and officially launched and now over 20 exclusive and honored distributors through out the world



Certificate & Patents











r one priority Performance and future needs INNO INNO-N INNO-S ISO 9001 ISO 14001

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INNO-STM

Absorbance, Luminescence & Fluorescence Microplate Reader



Wide selection of different wavelengths of fluorescence filters (% Refer to the technical sheet)



INNO-S is also available with NANO-V and NANO-VC optional accessories

Technical Details		
Detection modes	Fluorescence (top and bottom), 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™(Option) & NANO-VC™ plate (Option)	
Temperature control	trol Incubation up to 50°C; ±0.5°C at 37°C	
Shaking function	Shaking function Linear & Orbital	
Software	INNO-X™ (basic software) & INNO-X™ SECURE (for 21 CFR Part 11 Compliance) (Option)	

Time-Resolved Fluorescence		
Light source	High power LED	
Wavelength selection	Filter	

Physical Characteristics		
Connectivity	1 USB, 1 RS232 for external PC control	
Power	100 - 240 Volts AC. 50/60 Hz	
Dimension (mm)	408W x 390L x 290H	
Weight	18.2 kg	

Reagent Injectors	
Number	2 Syringe pumps
Dispense volume	5-1000 μL in 1 μL increments
Minimum prime volume	1.1 mL, 100 µL with back flush

Regulatory
CE and RoHS compliant, ISO 9001 & ISO 14001

INNO-S™ Typical Applications

- Protein quantification
- Enzyme kinetics
- Protein quantification
- Cell proliferation
- Cytotoxicity
- Environmental monitoring
- Genetic analysis
- Food safety



Nucleic acid quantification

- · Spectrophotometric determination of dsDNA, ssDNA, RNA at A₂₆₀
- Fluorometric determination of dsDNA with fluorescent dyes, for example, PicoGreen
- Determination of purity based on A₂₆₀/A₂₈₀ ratios



ELISAs

Enzyme-Linked Immunosorbent Assay (ELISA) is one of the most used immunoassay in modern bio research

- Indirect ELISA Sandwich ELISA
- Competitive ELISA Nucleic acid quantification
- · Spectrophotometric determination of dsDNA, ssDNA, RNA at A260
- Determination of purity based on A260/A280 ratios



Flourescence Applications

- Calcium Assay (GPCR)
- · Caspase-3 apoptosis Assay
- Cell Growth Assay
- Cytotoxicity Assay
- Fluorescent protein quantification
- Nucleic Acid quantification



Luminescence Applications

- ATP based Cell Viability Assay
- Chemiluminescent ELISA
- Cytotoxicity Assay
- · Mycoplasma Monitoring
- NanoBRET/BRET

Features



By using lamp and monochromator, INNO-S™ allows you to measure from 200 to 999 nm freely at your choice of 1nm increment. Xenon lamp(in absorbance) will serve the instrument semi-personal and which allows the users to experience and allows the users the users the users to experience and allows the users the u choice of 1nm increment. Xenon lamp(in absorbance) 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.



Supporting dual injector with variety of shaking technologies and incubating function up to 50°C.

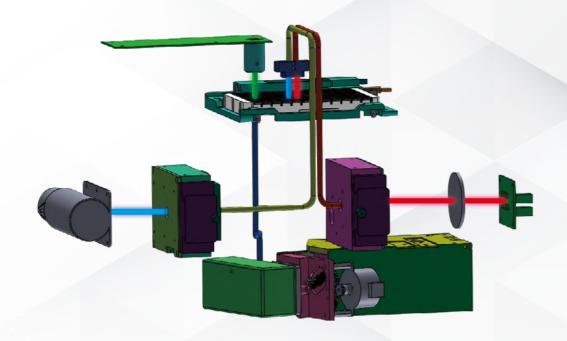


Using INNO-X™ SECURE S/W offers high performance software and safety reliable security for personal data with CFR Part 11 Compliance function.

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INNO-S™

Monochromator and filter optics



INNO-S^M has three main detecting functions. Since INNO-S^M is a monochromator-based microplate spectrophotometer for the absorbance measurements, it requires zero filters and allows you to measure from 200 to 999 nm freely at your choice of 1nm increment. Also Xenon lamps in absorbance will serve the instrument semi-permanent life time which brings the comfortable experiences to the users since the lamps do not need to be replaced such as halogen lamps.

Fluorescence using High Power LED to provide TRF(Time Resolved Fluorescence) and various convenient features as ready to run at "on". Also HPL has semi-permanent life time which the user does not have to go through the burdens such as switching the fluorescence light source every once in a while.

Main Features

01 (Monochromator-based UV-Vis absorbance
02 (High power LED and filter-based fluorescence detection for flexibility and performance
03 (Time Resolved Fluorescence (TRF)
04 (2μL low volume nucleic acid quantification with NANO-V™ & NANO-VC™ plate (Option)
05 (Cell friendly orbital shaking and advanced incubator design up to 50°
06 (Dual reagent injectors for inject/read applications
07 (Provides INNO-X™ software with powerful and diverse functions. INNO-X™ SECURE (21 CFR Part 11 Compliance)

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 0D
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 0D
OD repeatability	< 0.5% at 2.0 0D

Fluorescence Intensity	
Sensitivity	Top and Bottom : Fluorescein 5 pM (1 fmol/well, 96-well plate)
Light source	High power LED
Wavelength selection	Filters
Wavelength range	350 - 700 nm
Dynamic range	>6 decades
Detector	PMT

Luminescence	
Sensitivity	Sensitivity - 30 amol ATP(FLASH) - Multi-mode
Wavelength range	190 - 720 nm
Dynamic range	>6 decades
Detection system	Low noise PMT
Peak wavelength	410 nm
Limit of Detection (moles)	30 amol

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INNO-N

Micro Volume Spectrophotometer





Description

- Personal account to save and secure the data.
- · Lightweight with comfort design.
- Accurate and sensitive touch screen operation.
- Almost unlimited data saving space.

Certifications

- CE marked
- ISO 9001 / ISO 14001
- ROHS

Specification

Absorbance accuracy	3%	
	Nucleic Acid Quantification	
Applications	DNA Quantification	
Applications	RNA Quantification	
	Protein Quantification	
Certifications/ Compliance	CE, RoHS, IS09001, and IS014001	
Concentration	3000ng/pL (dsDNA); 60mg/mL (BSA)	
Connections	USB	
Detection limits	0.12mg/ml (BSA), 4ng/pL(dsDNA)	
Detector type	Silicon photodiode	
Display	LCD	

Lamp	Light Emitting Diodes (LED)
Measurement time	<5 sec.
No. of samples	1
Pathlength (Metric)	0.5mm
Resolution	<8nm
Sample volume (Metric)	2μL
Wattage	10W
Wavelength range	260nm, 280nm ,360nm
Weight (Metric)	2.2 kg
Dimension (mm)	205L x 220W x 160H
Voltage	24V Adaptor

INNO

Microplate Spectrophotometer (Absorbance)



Description

- 200nm to 999nm wavelength range
- Wavelength selection monochromator
- Xenon flash lamp for a semi-permanent life time

Certifications

- CE marked
- ISO 9001 / ISO 14001
- RoHS

Specification

Wavelength accuracy	±2nm
Electrical requirements	INPUT 100 to 240V 50 / 60Hz (65W Adaptor)
Microplate type	6 ~ 384 well plate
Detector	Photodiode
Light source	Xenon flash
Wavelength range	200 to 999 nm
Wavelength selection	Monochromator
Application	Spectral scanning, End point, Kinetic, Area scan
Dynamic range	0 ~ 4.0 OD
Resolution	0.0001 OD

OD accuracy	0 ~ 2 OD ± 1%	
OD linearity	0 ~ 2 OD ± 1%	
OD repeatability	0 ~ 2 0D ± 1%	
Shaking	Two step speed	
DNA/RNA Micro Volume Plate 24 wells	2μL Samples / Cuvette (Option)	
Weight	7.5kg	
Dimension (mm)	333W x 303L x 245H	
Software	INNO-X (Microsoft windows software)	
Supported software regression	Linear, Quadratic, Cubic, Log, Exponential, Point-to-point, 4PL	

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INNO-M

Multi-Mode reader (Absorbance + Luminescence)





Description

- 200nm to 999nm wavelength range
- Wavelength selection monochromator
- Xenon flash lamp for a semi-permanent life time
- Multi-mode (Absorbance + Luminescence)

Certifications

- CE marked
- ISO 9001 / ISO 14001
- RoHS

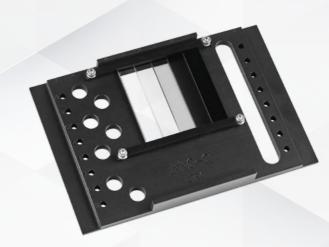
Specification

Absorbance			
Wavelength accuracy	±2nm	Dynamic range	0-4.0 OD
Electrical requirements	uirements INPUT 100 to 240V 50/60Hz/ (65W Adaptor)	Resolution	0.0001 OD
·		OD accuracy	0~2 OD ± 1%
Microplate type	6 ~ 384 well plate	OD linearity	0~2 OD ± 1%
Detector	Photodiode	OD repeatability	0~2 OD ± 1%
Light source	Xenon flash		
Wavelength range	200 to 999 nm	Shaking	Two step speed
3 3	200 to 333 1111	DNA/RNA Micro	2µL Samples / Cuvette
Wavelength selection	Monochromator	Volume Plate 24 wells	(Option)
Application	Spectral scanning, End point, Kinetic, Area scan		

Luminescence	
Detector	Photomultiplier (PMT)
Wavelength range	300 - 700nm
Peak Wavelength	420nm
Limit of Detection (moles)	3x10-21 moles

Others	
Software	INNO X (Windows Software)
Supported software regression	Linear, Quadratic, Cubic, Log, Exponential, Point-to-point, 4PL
Weight	8kg
Size	333x303x245

Optional Accessories



INNO-Q (Option)

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



NANO-VC (Option)

24 well DNA/RNA Quantitative measurement

Using 2µL 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 measuring from 240 to 320 nm with 2nm steps.

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

DsDNA, RNA, ssDNA, 1 Abs at 1cm = 1 mg/ml BSA, lgG, Lysozyme and other samples are measurable.

Specification

2μL Sample capacity	24 wells
Cuvette capacity	1 slot
Cuvette size	2.5 ml tube
Compatible model	INNO, INNO-M&INNO-S
Optical path length	0.5 mm
Detection limit	2 ng/pLdsDNA

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