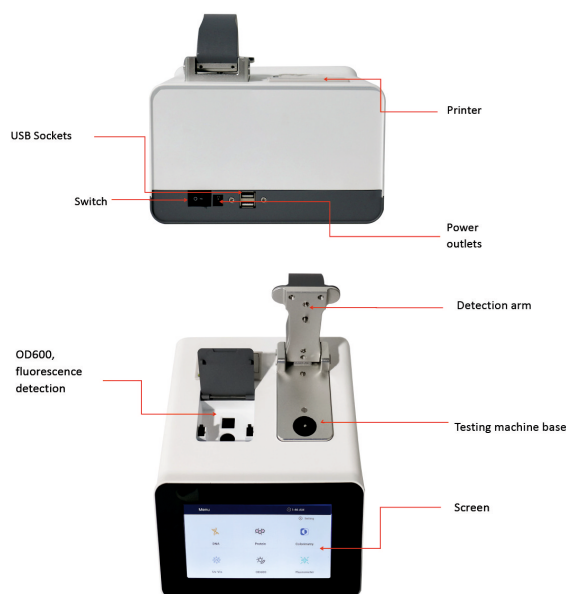




**Microvolume Spectrophotometer
MSOD6**





Microvolume Spectrophotometer (Biophotometer)

MSOD6

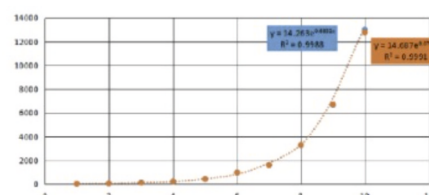


E - Catalogue

A microvolume spectrophotometer designed to measure the absorbance or concentration of molecules in extremely small sample volumes, typically in the microliter (μL) range. This technology has revolutionized the field of molecular biology, biochemistry, and genomics by enabling researchers to analyze precious samples with high accuracy

SALIENT FEATURES

- ✦ Microvolume Spectrophotometer have full wavelength detection 190-850nm.
- ✦ 4 Optical path detection Technology Mode, Stability, Repeatability, Linearity
- ✦ OD600 measurement optical path detection system, Nucleic Acid Test, Protein Analysis, Colorimetric Method UV-Vis Detection, Kinetics
- ✦ Fluorescence quantitative reagent can detect pg concentration dsDNA
- ✦ Micro Sample Volume can accurately detect nucleic acid, protein, and cell solutions using only 0.5 to 2 μL of sample.
- ✦ Cuvette Mode for bacteria and other culture fluid concentration detection.
- ✦ Fluorescence Detection detection for precise quantification of DNA, RNA, and protein concentrations using fluorescent dyes.
- ✦ Nucleic acid assays can be performed by directly spotting the sample onto the spiking plate eliminating the need for colorimetric cups or capillaries.
- ✦ Quick and simple measurement steps.
- ✦ Aluminium Box Packing



Microvolume Spectrophotometer (Biophotometer)

HSN Code : 90273020

SPECIFICATIONS

MODEL	MSOD6
Make	LABMAN
Wavelength Range	190-850nm
Sample Wavelength Scanning	190 ~850nm
Sample Volume	0.5-2 μ L
Optical Path (4)	0.02mm, 0.05mm (high concentration measurement),
	0.2mm, 1.0mm (general concentration measurement)
Nucleic Acid Testing Range	2-27500ng/ μ L (dsDNA)
Light Source	Xenon flash lamp
Number of Detector	1
Detectors	UV-enhanced CMOS Line Array Sensors
Absorbance Accuracy	0.002Abs (0.2mm Light Range), $\pm 1\%$ (7.332Abs at 260nm)
Absorbance Range	0.02-3.00A
OD600 Absorbance Range	0~6.000 Abs
OD600 Stability	(0.3) $\leq 0.5\%$, (3.4) $\leq 2\%$
Od600 Repeatability of Absorbance	(0.3) $\leq 0.5\%$, (3.4) $\leq 2\%$
Testing Time	<6Sec
Fluorescence Linearity	$R^2 > 0.995$
Fluorescence Repeatability	<1.5%
Fluorescence Sensitivity	dsDNA 0.5pg/ μ L
Sample Base Material	Quartz Fiber and Stainless Steel
Display	7" Touch Screen
Output	USB Interface
Operating System	Built-In Android OS
Printing	In-built Thermal Printer
Power Supply	Adaptor, AC 220V / 50Hz
Packing Dimension (LxWxH)	555 x 410 x 330mm
Gross Weight	10kg

★ Specifications are subject to change without notice.

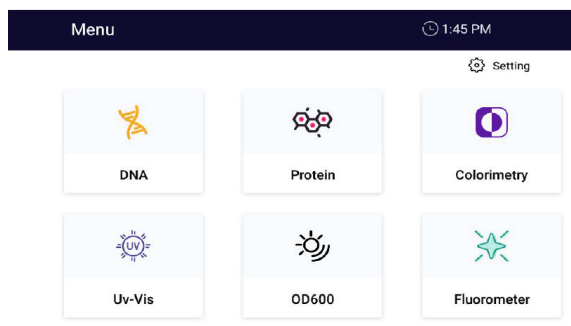
STANDARD ACCESSORIES: Main Instrument, Quartz Cuvettes -2Nos., Sample Holder Box, 2" Thermal Roll, Adaptor, Power Cord, Instruction Manual, Test Certificate

Microvolume Spectrophotometer

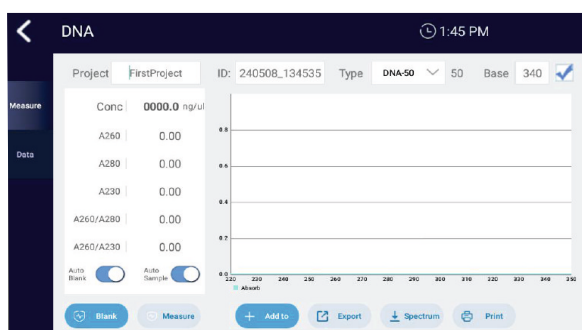
MSOD6



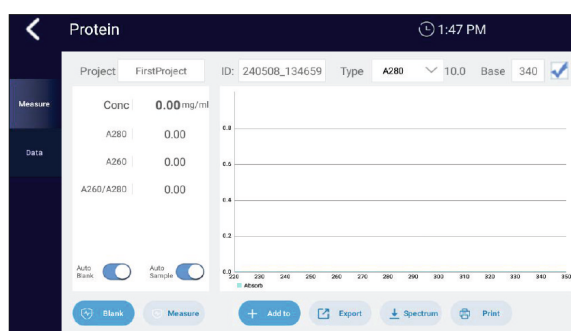
Instrument Self Test



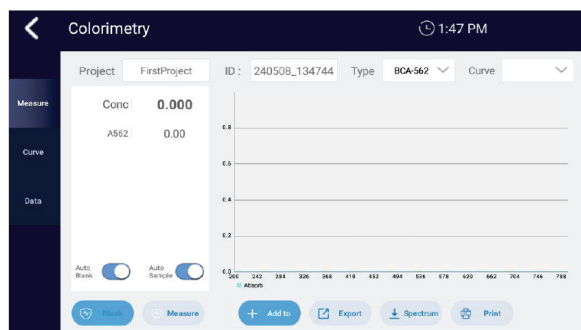
Menu



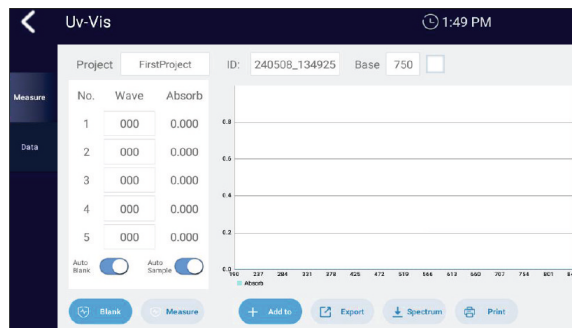
Nucleic Acid Testing



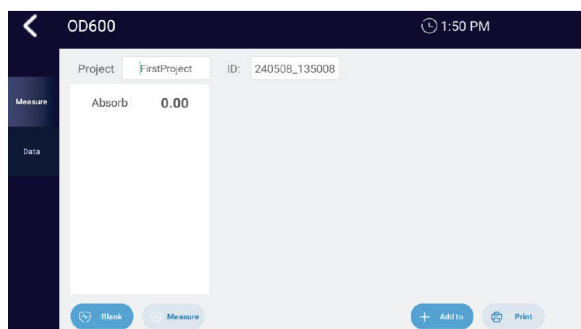
Protein Analysis



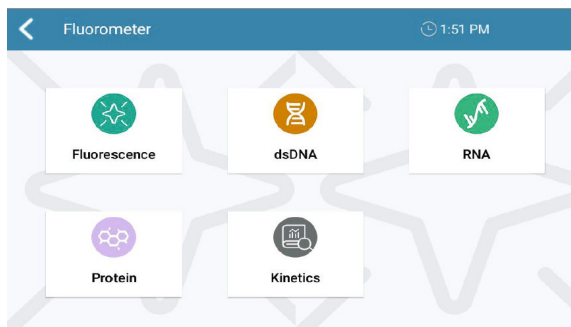
Colorimetric Method



UV-Vis.



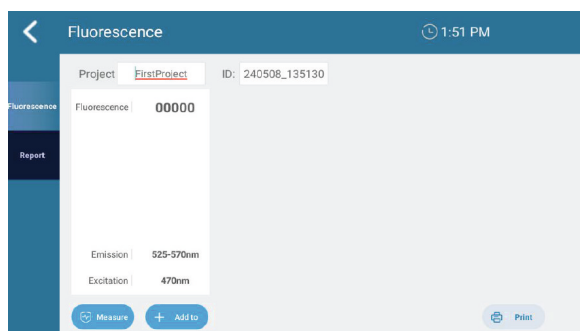
OD600



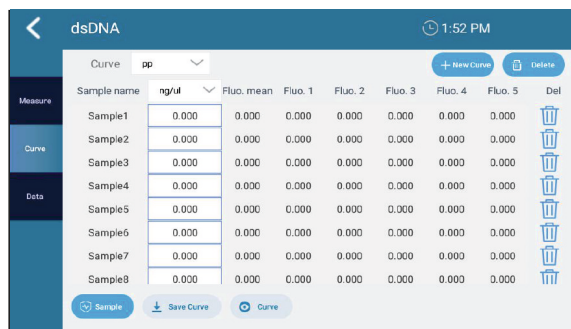
Filter Setup

Microvolume Spectrophotometer

MSOD6

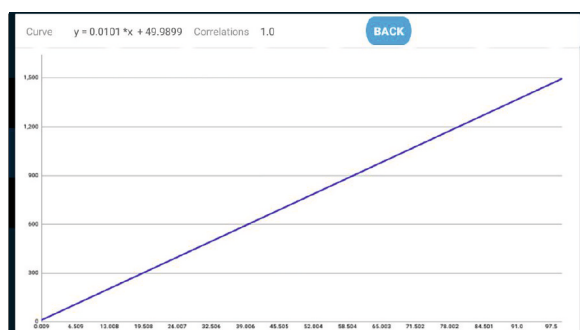


Fluorescence

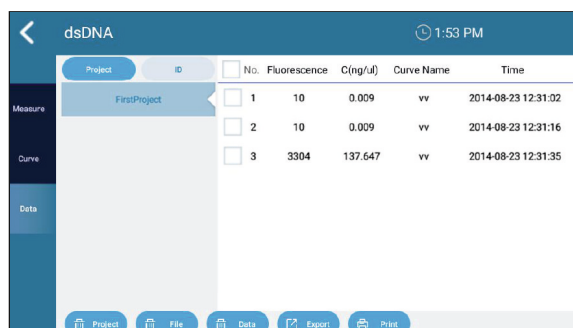


Sample name	ng/ul	Fluo. mean	Fluo. 1	Fluo. 2	Fluo. 3	Fluo. 4	Fluo. 5	Del
Sample1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sample8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

dsDNA

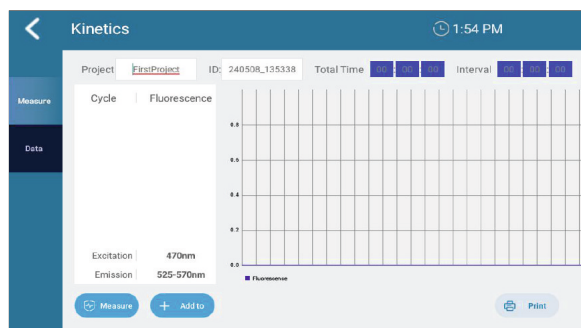


dsDNA Graph Display

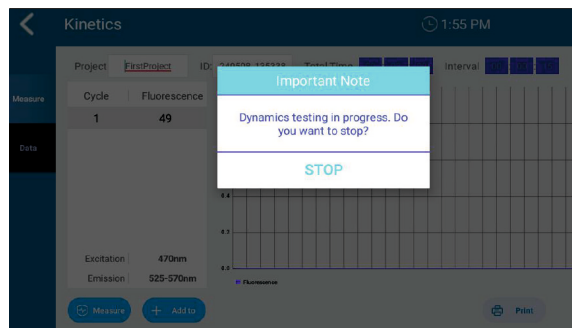


Project	ID	No.	Fluorescence	C(ng/ul)	Curve Name	Time
FirstProject		1	10	0.009	vv	2014-08-23 12:31:02
		2	10	0.009	vv	2014-08-23 12:31:16
		3	3304	137.647	vv	2014-08-23 12:31:35

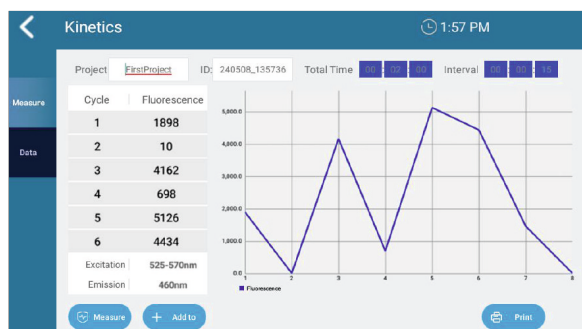
dsDNA Project



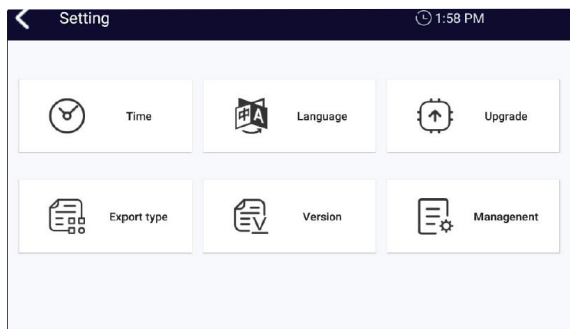
Kinetics



Kinetics Testing Progress



Kinetics Graph



System Setup

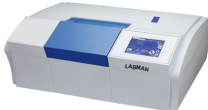
LABMAN Product Range 2025-26

LMFD61, 62, 63, 64 Lyophilizer Freeze Dryer (-60°C)	LMFD83, 84 Lyophilizer Freeze Dryer (-80°C)	LMRE25 Rotary Evaporator	ADM3 Automatic Density Meter	MSOD6 Microvolume Spectrophotometer
NAE32 Nucleic Acid Extractor	EMR4 Elisa Microplate Reader	GPTC96 Gradient PCR Thermal Cycler	HO30 Hybridization Oven	UVCL254 UV - Crosslinker
TGH12, 24 Tissue Grinder Homogenizer	PBH80T Paddle Blender Homogenizer	TOC2NDIR Total Organic Carbon Analyzer	TOC1CD Total Organic Carbon Analyzer	LMDS600, 1200 Microwave Digestion System
HPLC1IS, HPLC2GS High Performance Liquid Chromatography	APT1800 Automatic Potential Titrator	KFT250VC Karl Fischer Titrator	COD1500 COD Analyzer with Digestor	BOD4000 BOD Analyzer
MTVM50 Multi Tube Vortex Mixer	LMVM60D Vortex Mixer	OS20 Orbital Shaker	TRM6 Tube Roller Mixer	DBNE12, 24 Dry Bath Nitrogen Evaporator

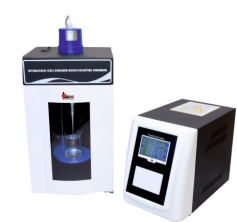
LABMAN Product Range 2025-26

DBI11T  Dry Bath Incubator	DBI15SH, DBI16SC  Dry Bath Incubator	IRS14, 35  Infrared Sterilizer	GGA200  Air Generator	GGA301, 302  Hydrogen Generator
GGN303  Nitrogen Generator	GHA304  Hydrogen Air Generator(2 in 1)	LMVP10  Vacuum Pump	LMVP20  Vacuum Pump	LMCO1  Column Oven
LMIO6  Mini Thermostatic Incubator	GHP400  Graphite Hotplate	LOBMS5  Oil Bath Magnetic Stirrer	LMMS4LC, 20LC  Ceramic Hotplate Magnetic Stirrer	LMMS300  Hotplate Magnetic Stirrer
MMS15S  Multiposition Magnetic Stirrer	MMS12H  Multiposition Magnetic Stirrer	WBMS3  Water Bath Magnetic Stirrer	LMWB2H, 4H, 6H, 8H  Digital Water Bath	HOS20L  Overhead Stirrer
LMHH160  Hand Held Homogenizer	PS1565  Peltier / Sipper System	LUV6HG  PMT Spectrophotometer	LUV2000T, 2100T  Single / Double Beam UV-Vis. Spectrophotometer with 21CFR	LMSPUV SERIES  Double Beam UV-Vis. Spectrophotometer

LABMAN Product Range 2025-26

LMSPUV1200  UV-Vis. Single Beam Spectrophotometer	LMSPV320, 325  Visible Spectrophotometer	ADP100CFR, 95CFR  Automatic Digital Polarimeter with CFR	ADP45, 50  Automatic Digital Polarimeter (±45°)	ADP75, 90  Automatic Digital Polarimeter (±90°)
ADP40  Automatic Digital Polarimeter	LMPM180  Manual Polarimeter	MAR100  Manual ABBE Refractometer	RFM100CFR  Digital Refractometer CFR	RFM950, 970  Digital Refractometer
LMAR1317T  ABBE Refractometer	LMDV300H  Digital Viscometer with Thermosel	LMDV60, 100, 200  Digital Viscometer (L Series)	LMDV400R  Digital Viscometer (R Series)	LMKV2  Krebs Viscometer
LMDV111, 222  Digital Viscometer with SSA	LVA30  Low Viscosity Adaptor	LMCR80F  Visual Colorimeter	LMUC2D  Ultrasonic Cleaner	LMUC3D, 6D, 9D, 12D, 25D  Ultrasonic Cleaner - Degas
LMUC50, 100  Industrial Ultrasonic Cleaner	LMPH15  pH Meter with Printer	LMPH12, LMPH10H  pH Meter	LMPH9  pH Meter - Basic	LMCM20H  Conductivity / TDS Meter

LABMAN Product Range 2025-26

LMMP30, 32  Multiparameter (7 in 1 / 9 in 1)	LMION40  Ion Meter	LMDO50  Dissolved Oxygen Meter	LMHD60  Water Hardness Meter	OPH11  Online pH Controller
OCM21  Online Conductivity Controller	LMTB200  Turbidity Meter	RCB1010T, 1020T, 1030T  Refrigerated Circulating Bath	RCB620T  Refrigerated Circulating Bath	RWC320  Recirculating Water Chiller
LMDO4P  Portable DO Meter	LMPH1P  Portable pH / ORP Meter	LMCM2P  Portable Conductivity / TDS Meter	LMTB5P  Portable Turbidity Meter	PRO656, 900, 1200, 1800  Probe Sonicator
PRO660R  Probe Sonicator with Remote	PRO650  Probe Sonicator	PROBE  Probe 2mm to 22mm	LMIF30T, 50T, 100T  Ice Flaker	LMIF200T  Ice Flaker
LMIM15  Ice Maker	LMIM20C  Ice Maker with Crusher	ISE19, 62  Nitrate / Fluoride ISEs	ER SERIES  pH Electrode / DO Electrode	CC1, CC2, CC3  Conductivity Cell