

Single Beam UV- Vis Spectrophotometer LUV1100T



Touchscreen

Single Beam UV- Vis.Spectrophotometer

LUV1100T

SALIENT FEATURES

- ✦ Full wavelength scanning (190-1100nm) covers UV, Vis., near IR
- ✦ Fully sealed structure, all optical mirrors are equipped with SiO₂ protective film to avoid stray light caused by dust and corrosive gas.
- ✦ Core components reduce the stray light and improve the stability and reliability.
- ✦ Single Beam optical system with precision vertical-type dual optical path and dual detector.
- ✦ Grating of high performance greatly reduces the stray light and improves the stability and reliability of device.
- ✦ 7 inches large touch screen, built-in 32GB memory.
- ✦ Powerful data analysis system with internal computer could realize multi functions independently. Like establishing calibration curve, photometric measurement, quantitative measurement, spectral scanning, dynamics, DNA/Protein test, multi-wavelength analysis and data printing.
- ✦ W Lamp / D2 Lamp can monitor of usage hours.
- ✦ Data can export in Pendrive directly
- ✦ Convenient data storage and printing function. LUV Series can be directly connected to the printer HP DESKJET 2723 for A4 paper data and graph printing.
- ✦ Automatic power ON self test and system positioning function could inspect and calibrate the deviation before every use.
- ✦ All test data and analysis report can be exported to USB disk directly.
- ✦ Graphs support 3D display,
- ✦ PC software follows GLP & GMP standards, user management, logging, data tracking, etc. mostly as per 21CFR Part 11.



E - Catalogue

Touchscreen

Single Beam UV- Vis.Spectrophotometer

HSN Code : 90273020

SPECIFICATIONS

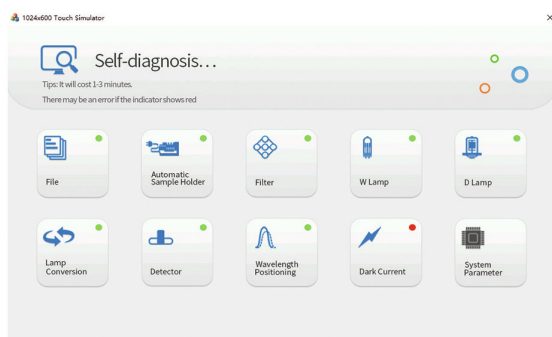
MODEL	LUV1100T
Bandwidth	2.0nm
Make	LABMAN
Optical System	Single beam
Wavelength Range	190-1100nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	±0.2nm
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C
Photometric Accuracy	±0.2T(0-100%T), ±0.002Abs(0-0.5Abs), ±0.004Abs(0.5-1.0Abs)
Photometric Repeatability	≤0.1%T(0-100%T), 0.001Abs(0-0.5Abs), 0.002Abs(0.5-1.0Abs)
Stability	±0.001A/h @ 500nm
Stray Light	0.05%T @ 220 nm, 360 nm
Cell Holder	10mm each, Sample & Reference Cuvette Holder
Focal Length	10mm
Light Source	Tungsten Lamp & Deuterium lamp
Resolution	0.1nm
Display	7" Touch Screen (800 x 480) HD TFT
Memory	32GB
Detector	Silicon Photodiode
Control Mode	Stand-alone system/PC software
Baseline flatness	±0.001A/h
Data Output	USB
Power Supply	AC 220V,50/60Hz
Packing Dimension (L x W x H)	645 x 550 x 405mm
Gross Weight	25kg

★ Specifications are subject to change without notice.

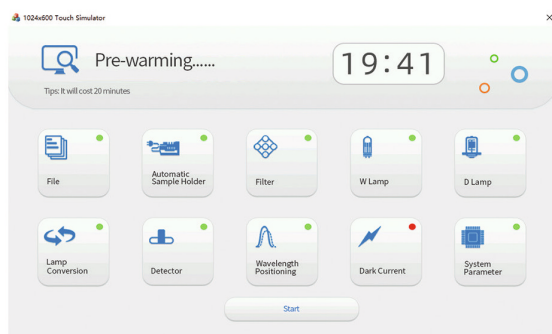
STANDARD ACCESSORIES : Main Instrument, Power Cable, 10mm Quartz Cuvette, Glass Cuvette, Software Pen Drive, Dongle, Dust Cover, USB Cable, Instruction Manual, Test Certificate

LUV1100T - Touchscreen

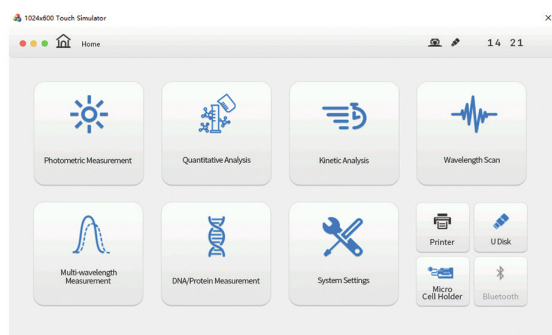
- Automatic self-inspection: all system parameters will be inspected when device turns on. If any error occurs, the system will automatically beep to alarm, and the status indicator of the option is displayed as red which is easy to analyze the exact problem.



- Real-time record of the warm up time.

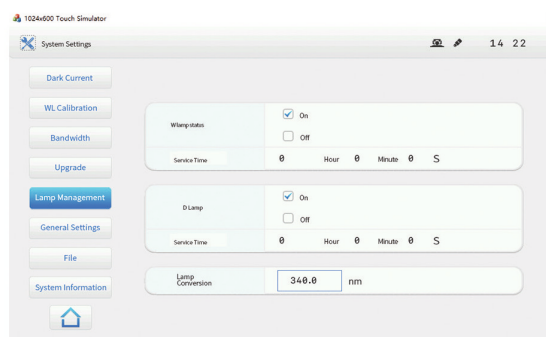


- Multi-functions like photometric measurement, quantitative measurement, kinetics, spectral scanning, multi-wavelength analysis, DNA/ Protein test, etc.



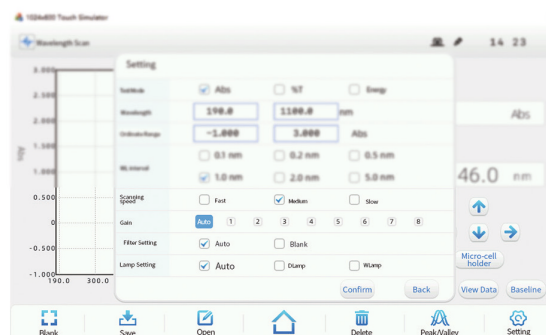
Single Beam UV- Vis. Spectrophotometer

- Lamp monitoring system: one-touch switching the tungsten lamp and deuterium lamp, real-time monitoring of lamps



- Data retrieval and graph zooming are available.
- It supports data sharing, Excel & TXT data transfer and Windows clipboard.
- Easy to switch sample position by automatic cell holder.
- Common concentration units are available, like $\mu\text{g/L}$, mg/L , g/L , ppm and mol/L to meet most of needs.

- Three levels of scanning speed can be selected, which suits for samples with different characteristics and obtains reliable scanning results.



LUV1100T - Touchscreen

Secondary data deletion to avoid data loss caused by misoperation

☒ Current Data


Delete

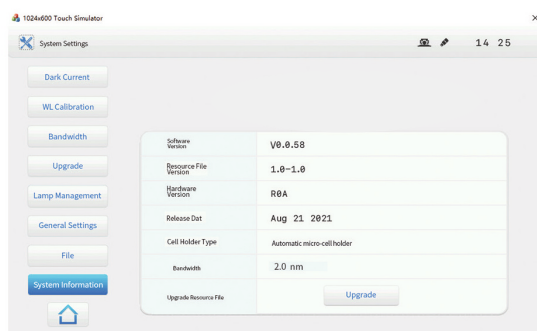
Clear all data from the current measurement interface

☒ All Data

Delete

Delete the selected data.

Upgrade the system software by one-click



System Settings

Dark Current

WL Calibration

Bandwidth

Upgrade

Lamp Management

General Settings

File

System Information

Software Version	V0.0.58
Resource File Version	1.0-1.0
Hardware Version	R0A
Release Dat	Aug 21 2021
Cell Holder Type	Automatic micro-cellholder
Bandwidth	2.0 nm

Upgrade Resource File

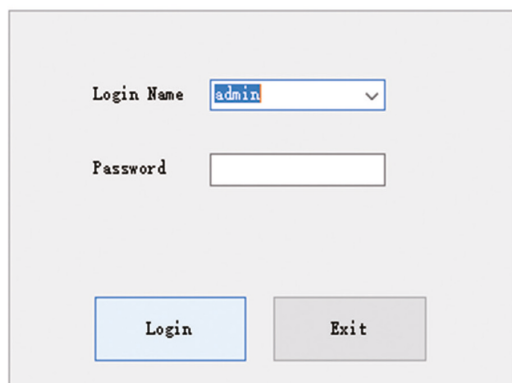
Upgrade

PC Software

PC software follows GLP & GMP standards, user management, logging, data tracking, etc. mostly as per 21CFR Part 11.

Functions

Photometric measurement, three dimensional quantitative measurement, kinetics test and spectrum scanning, DNA/Protein test, Multi-wavelength and multicurve measurement



Login Name

admin

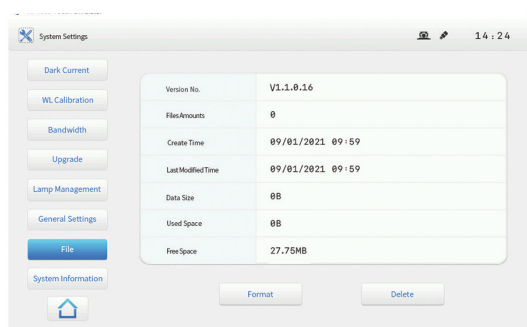
Password

Login

Exit

Single Beam UV- Vis. Spectrophotometer

Status of USB storage is able check



System Settings

Dark Current

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Lamp Management

General Settings

File

System Information

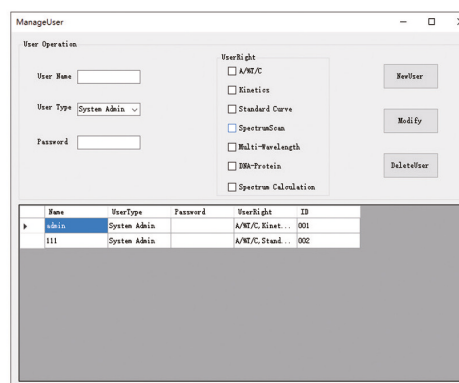
Version No.	V1.1.0.16
File Amounts	0
Create Time	09/01/2021 09:59
Last Modified Time	09/01/2021 09:59
Data Size	0B
Used Space	0B
Free Space	27.75MB

Format

Delete

Multi-channel for data transmission :

Spectral scan data can be stored in the host; data can be saved in the USB when USB connected, the file name is editable: It is able to connect the printer HP DESKJET 2723 directly to output data in A4 paper



ManageUser

User Operation

User Name

User Type

Password

UserRight

☐ A/W/C

☐ Kinetics

☐ Standard Curve

☐ SpectraScan

☐ Multi-Wavelength

☐ DNA-Protein

☐ Spectrum Calculation

Verify

Modify

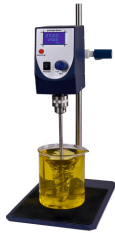
DeleteUser

Name	UserType	Password	UserRight	ID
admin	System Admin		A/W/C, Kinest...	001
111	System Admin		A/W/C, Stand...	002

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

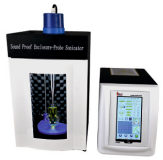
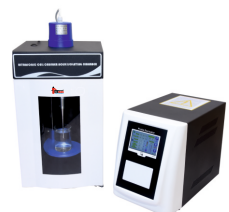
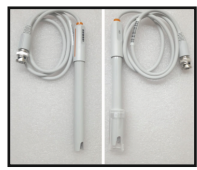
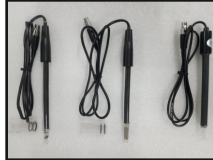
LABMAN Product Range 2025-26

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

LMCM20H  Conductivity / TDS Meter	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	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