



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

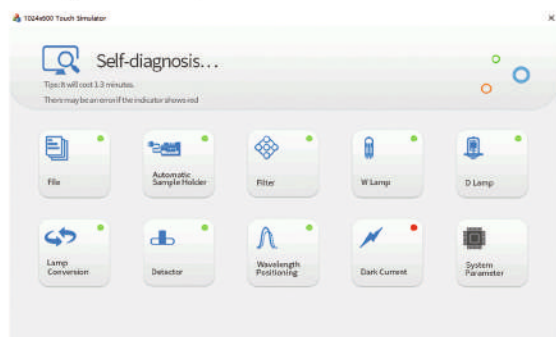
MODEL	LUV1100T
Bandwidth	2.0nm
Make	LABMAN
Optical System	Single beam
Wavelength Range	190-1100nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	±0.2nm
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C
Photometric Accuracy	±0.2T(0-100%T), ±0.002Abs(0-0.5Abs),±0.004Abs(0.5-1.0Abs)
Photometric Repeatability	≤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.

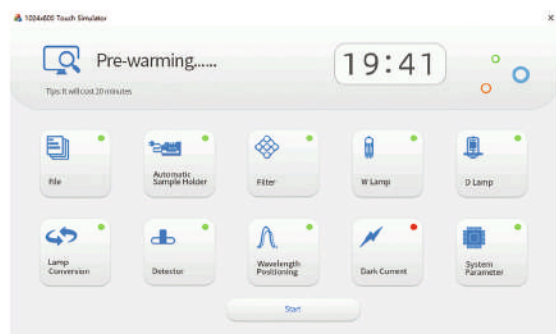
STANDARD ACCESSORIES : Main Instrument, Power Cable, 10mm Quartz Cuvette, Glass Cuvette, Software Pen Drive, Dongle, Dust Cover, USB Cable, Instruction Manual, Test Certificate

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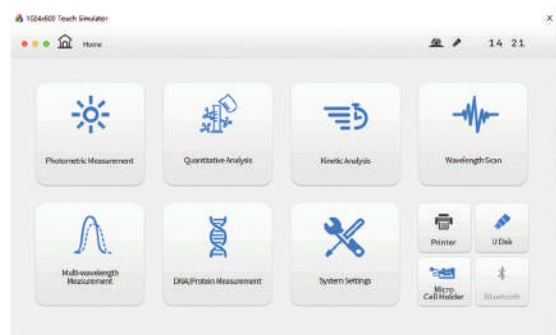
- Automatic self-inspection: all system parameters will be inspected when device turns on. If any error occurs, the system will automatically beep to alarm, and the status indicator of the option is displayed as red which is easy to analyze the exact problem.



- Real-time record of the warm up time.

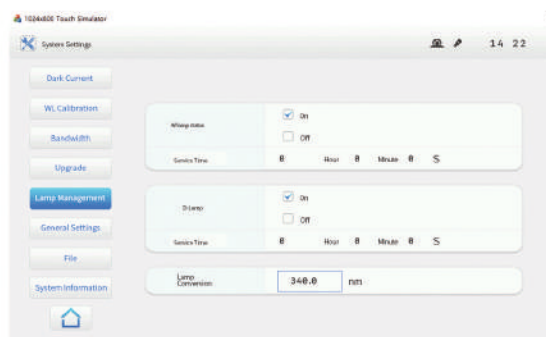


- Multi-functions like photometric measurement, quantitative measurement, kinetics, spectral scanning, multi-wavelength analysis, DNA/ Protein test, etc.



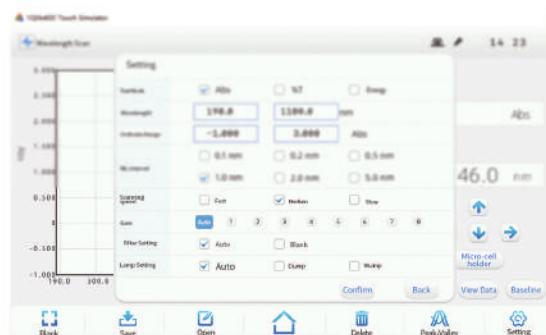
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- Lamp monitoring system: one-touch switching the tungsten lamp and deuterium lamp, real-time monitoring of lamps



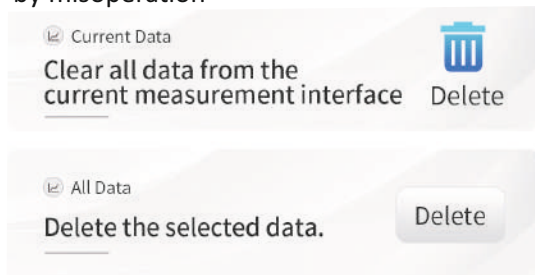
- Data retrieval and graph zooming are available.
- It supports data sharing, Excel & TXT data transfer and Windows clipboard.
- Easy to switch sample position by automatic cell holder.
- Common concentration units are available, like $\mu\text{g/L}$, mg/L , g/L , ppm and mol/L to meet most of needs.

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

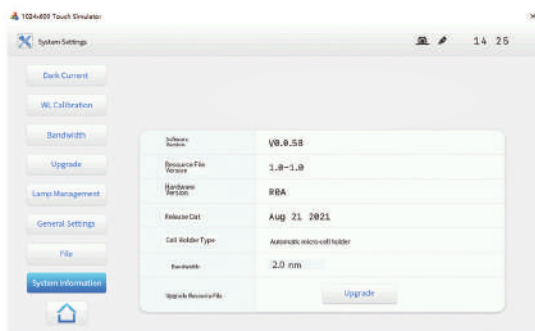


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Secondary data deletion to avoid data loss caused by misoperation

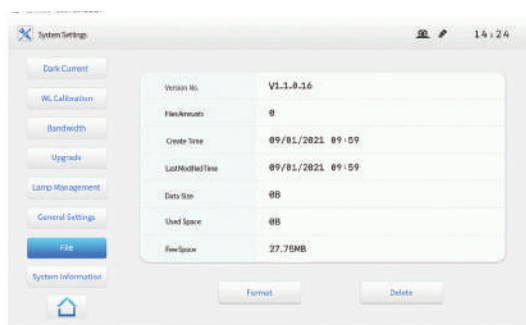


Upgrade the system software by one-click



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Status of USB storage is able check



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

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

