



## **Double Beam UV VIS Spectrophotometer TRDUV-604**

[www.labomate.com](http://www.labomate.com) | [info@labomate.com](mailto:info@labomate.com)

## Description

Double Beam UV VIS Spectrophotometer TRDUV-604 is a double-beam optical system with blazed holographic gratings. It has a sophisticated power protection system, a wavelength range of 190 to 1100 nm, a bandwidth of 2 nm, and an accuracy of 0.3 nm. It performs admirably in qualitative testing with a photometric display range of 0.0–200.0 % T, -0.301 to 4.000 A, 0.000 to 9999 C, and an accuracy of 0.3 % T (0 to 100 % T), 0.002A (0 to 0.5A), and 0.004A, (0.5A to 1A). It comes with a USB interface.

## Features:

- The blazed hologram gratings are used in the dual-beam UV VIS Spectrophotometer
- Designed with an 8-inch color touch screen, advanced user interface, powerful functions, and simple operation
- The equipment performs well in qualitative and quantitative testing due to its powerful functions, such as
- Examine the entire spectrum
- Linear regression analysis
- Extensive frequency searching
- Direct reading with concentration
- Persistence of time-based kinetics
- Measurement of multiple wavelengths
- A sophisticated power protection system is built into the equipment
- It has a large internal memory and can hold test results, image data, regression analysis, and correction data. As a result, when turned on, it performs a quick initialization
- Connected with printer, which can print results or draw curves from spectral scanning, fixed wavelength time-based scanning, and linear regression
- ? The device can be connected to a PC via a USB, which not only improves performance in data testing and spectrum scanning but also expands the memory to save more testing results

## Specifications :

<b>Band Width</b>	2 nm
<b>Baseline Flatness</b>	±0.002A(200 to 1090 nm)
<b>Detector</b>	Import Silicon Photodiode
<b>Dimensions(W×D×H)</b>	74×63×45 Cm
<b>Drifting</b>	±0.0009 Abs/30 min (250 nm and 500 nm after 2h warm-up)
<b>Focal length</b>	160 mm
<b>Grating</b>	1200 lines/mm
<b>Monochromatic type</b>	Czerny turner
<b>Photometric Accuracy</b>	±0.3% T(0 to 100%T), ±0.002A(0 to 0.5A), ±0.004A(0.5A to 1A)
<b>Photometric Display Range</b>	0.0 to 200.0% T, -0.301 to 4.000 A, 0.000 to 9999 C
<b>Photometric Mode</b>	T,A,C,E
<b>Photometric Repeatability</b>	0.15% T(0 to 100%T), ±0.001A(0 to 0.5A) / ±0.002A(0.5A to 1A)
<b>Power Requirement</b>	AC220V±22 50Hz±1Hz,200W
<b>Scanning speed</b>	Fast-medium-slow
<b>Stability</b>	0.0005A/h@500 nm
<b>Stray Light</b>	±0.03% ? (220nm NaI, 360nm NaNO <sub>2</sub> )
<b>Wavelength Accuracy</b>	±0.3 nm
<b>Wavelength Range</b>	190 to 1100nm
<b>Wavelength Repeatability</b>	±0.01 nm
<b>Weight</b>	35 Kg



E. Cherry St. Springfield MO 65802, USA  
Email: [info@labomate.com](mailto:info@labomate.com) | Website: [www.labomate.com](http://www.labomate.com)