

# STALWART

**Touch Screen  
UV-VIS-Spectrophotometer  
STA-8100T Series**



## Features

- 800\*480 touch screen display which shows clear graphs.
- Stand-alone system which can realize spectrum measurement, quantave, wavelength scanning, kinetics, system sensing directly on the instrument.
- The instrument uses a rigid 16mm(STA-8100T Series) die-cast aluminum base as its optical mount to ensure instrument stability and reliability.
- Automatic system calibration and positioning to recover deviation after long-term use.
- Imported main optical spare parts to ensure low stray light, stability and reliability.
- The Instrument has powerful memory which can print data and graphs in A4 format directly by connecting to a printer.
- Data can export to USB directly.
- Intelligent Alarm Function
- System Encryption Function
- Display several groups of data at the same time for direct reading
- Module design for easy operation
- New Panel with touch screen

## Specification

Item	STA-8100T	STA-8100ST	STA-8100AT
Wavelength Range	190-1100nm	190-1100nm	190-1100nm
Spectral Bandwidth	1.8nm	0.5, 1.0,2.0,4.0nm	1nm
Wavelength Accuracy	±0.1nm(D2656.1nm), ± 0.3nm full range	±0.1nm(D2656.1nm), ± 0.3nm full range	±0.1nm(D2656.1nm), ± 0.3nm full range
Wavelength Repeatability	≤0.1nm	≤0.1nm	≤0.1nm
Stray Light	≤0.03%T220nm, 360nm	≤0.03%T220nm, 360nm	≤0.03%T220nm, 360nm
Photometric Accuracy	±0.2T(0-100%T) ±0.002Abs(0-0.5Abs) ±0.004Abs(0.5-1.0Abs)	±0.2T(0-100%T) ±0.002Abs(0-0.5Abs) ±0.004Abs(0.5-1.0Abs)	±0.2T(0-100%T) ±0.002Abs(0-0.5Abs) ±0.004Abs(0.5-1.0Abs)
Photometric Repeatability	≤0.05%T(0-100%T) 0.001Abs(0-0.5Abs) 0.002Abs(0.5-1.0Abs)	≤0.05%T(0-100%T) 0.001Abs(0-0.5Abs) 0.002Abs(0.5-1.0Abs)	≤0.05%T(0-100%T) 0.001Abs(0-0.5Abs) 0.002Abs(0.5-1.0Abs)
Stability	±0.0004A/h@500nm	±0.0004A/h@500nm	±0.0004A/h@500nm
Photometric Range	0-200%T, -4.0-4.0A, 0-9999C	0-200%T, -4.0-4.0A, 0-9999C	0-200%T, -4.0-4.0A, 0-9999C
Baseline Flatness	±0.001A	±0.001A	±0.001A
Noise	±0.0001A	±0.0001A	±0.0001A

## Specification

Display	800*480 touch screen	800*480 touch screen	800*480 touch screen
Data Output Port	USB	USB	USB
Printer Port	USB Port	USB Port	USB Port
Light source	Tungsten Lamp & D2 Lamp	Tungsten Lamp & D2 Lamp	Tungsten Lamp & D2 Lamp
Power Requirements	AC220V/50Hz or 110V/60Hz	AC220V/50Hz or 110V/60Hz	AC220V/50Hz or 110V/60Hz
Detector	Silicon Photodiode	Silicon Photodiode	Silicon Photodiode
Dimension	630*430*210mm	630*430*210mm	630*430*210mm
Weight	28Kg	28Kg	28Kg

## Standard Accessories

Sr#	Description	Quantity	Unit
1	1 cm Glass cuvette	4	Pcs
2	Power cord	1	Pcs
3	User's Manual	1	Pcs
4	1 cm quartz cuvette	2	Pcs
5	Dust cover	1	Pcs