

# STALWART

## PMT Spectrophotometer STP-Series



STP-Series

## Introduction

The use of photomultiplier tube as a detector offers exceptional sensitivity. Powerful functions like Photometric measurement, Quantitative measurement, kinetics, Spectrum scan, DNA/Protein test, multi-wavelength test, etc.

## Features

- The use of photomultiplier tube as a detector offers exceptional sensitivity.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Large sample chamber can accommodate 5-100mm cuvettes of all kinds.
- Extensive accessories are optional, such as auto 8-cell holder, film holder, peltier/sipper system, 21 CFR compliant software, built-in printer, etc.

## Specification

Item	STP-800	STP-801	STP-801S
Optical System	Double Beam, Grating 1200 lines/mm		
Wavelength Range	190-1100 nm		
Spectral Bandwidth	2nm	1nm	0.5/1/2/4/5
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all		
Wavelength Repeatability	≤0.1nm		
Photometric Accuracy	0.2%T(0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)		
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)		
Photometric Range	0-200%T, -4~4A, 0-9999C (0-9999F)		
Stray Light	≤0.03%T@220nm, 360nm		
Stability	±0.0005A/h@500nm		
Baseline Flatness	±0.0002A	±0.001A	
Noise	0.0005A@500nm		
Work Mode	T, A, C, E		
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)		
Wavelength Setting	Auto		
Display	7" TFT Color Screen		

## Specification

Light Source	Imported Deuterium & Tungsten lamp	
Detector	Imported Photomultiplier Tube	
Cuvette Holder	10mm single hole cell holder	
Output	USB drive, USB host, Rs232	
Power	AC 220V/50Hz or AC 110V/60Hz	
Shipping Size	810*660*390mm	880*690*520mm
Gross Weight	27kg	45kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual , PC software	

## Specification

Item	STP-900	STP-901	STP-901S
Optical System	Double Beam, Grating 1200 lines/mm		
Wavelength Range	190-1100 nm		
Spectral Bandwidth	2nm	1nm	0.5/1/2/4/5
Wavelength Accuracy	$\pm 0.1\text{nm}@656.1\text{nm}$ , $\pm 0.3\text{nm}@all$		
Wavelength Repeatability	$\leq 0.1\text{nm}$		
Photometric Accuracy	0.2%T(0~100%T), $\pm 0.002A(0-0.5A)$ , $\pm 0.004A(0.5-1A)$		
Photometric Repeatability	$\leq 0.15\%T(0-100\%T)$ , $0.001A(0-0.5A)$ , $0.002A(0.5-1A)$		
Photometric Range	0-200%T, -4~4A, 0-9999C (0-9999F)		
Stray Light	$\pm 0.0005A/h@500\text{nm}$	$\leq 0.03\%T@220\text{nm}, 360\text{nm}$	
Stability	$\pm 0.0002A$		
Baseline Flatness		$\pm 0.001A$	
Noise	0.0005A@500nm		
Work Mode	T, A, C, E		
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)		
Wavelength Setting	Auto		
Display	10.1" TFT Colored Capacitive Touch Screen		

## Specification

Light Source	Imported Deuterium & Tungsten lamp	
Detector	Imported Photomultiplier Tube	
Cuvette Holder	10mm single hole cell holder	
Output	USB drive, USB host, Rs232	
Power	AC 220V/50Hz or AC 110V/60Hz	
Shipping Size	810*660*390mm	880*690*520mm
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