

STALWART

Spectrophotometer with Tab STF Series



Features

11-inch Touch Screen with direct access to photometric measurement, quantitative analysis, wavelength scanning, and kinetics.

Dedicated modules for nucleic acid and protein testing to streamline workflows.

Dual-beam system for synchronous sample/reference detection, compensating for light source fluctuations, temperature drift, and ambient interference.

High-speed scanning: up to 30,000 nm/min with 0.02 nm interval.

Wide UV-Vis range: 190–1100 nm using imported deuterium & tungsten lamps with automatic switching.

Flexible slit adjustment: narrow slit for resolution, wide slit for sensitivity.

Data management: barcode scanner, permission management, e-signature, audit trail, LIMS connection.

Connectivity: cloud, USB-B, email, SMS, Bluetooth, Wi-Fi; optional printing.

Accessories available: auto sample holder, film holder, integrating sphere, peltier/sipper system, etc.



Specification

Item	STF-300	STF-400	STF-500	STF-501	STF-501V	STF-600	STF-601	STF-601V
Optical System	Single Beam	Split Beam	Single Beam			Double Beam		
Wavelength Range	320 – 1100nm	190 – 1100nm						
Spectral Bandwidth	2nm	2nm	2 nm	1 nm	0.1 –5nm (selectable)	2 nm	1 nm	0.1 –5nm (selectable)
Wavelength Accuracy	±0.1nm@661nm, ±0.3nm overall							
Wavelength Repeatability	≤0.1nm							
Photometric Accuracy	0.2%/T (0 – 100%/T), ±0.0005A (0 – 0.5A), ±0.0008A (0.5 – 1A)							
Photometric Repeatability	≤0.15%/T, 0.0004A (0 – 0.5A), 0.0006A (0.5 – 1A)							
Photometric Range	0–400%/T, –4%A							
Stray Light	≤0.03%/T @220nm, 360nm							
Baseline Flatness	±0.0004A							
Drift	≤0.1%/T							
Noise	0.0005A@500nm							
Scanning Speed	H, Med, Low (Max 30,000nm/min)							
Display	11 - inch Touch Screen							
Light Source	Tungsten (FS300) / Deuterium&Tungsten (others)							
Detector	Imported Silicon Photodiode							
Cuvette Holder	50mm auto 5 – cell (FS300 – FS501) / 10mm single hole (FS600 – FS601S)							
Output	Cloud, USB – B, Email, SMS, Bluetooth, Wi – Fi							
Power	AC110 – 220V, 50 – 60Hz							