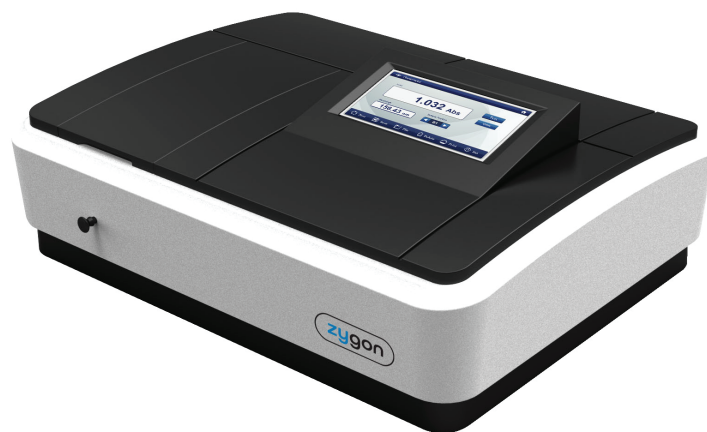# ZSP-100 DBA
SPECTROPHOTOMETER

Spectrophotometer

- Appearance and internal structure: Modern and elegant appearance, extendable design, separate structure design for optical and circuit system can efficiently avoid the loss of photometric energy
- Convenient and intuitive operation interface: The series has 7-inch high resolution capacitive touch screen and newly developed UV-super 2.0 software with strong functions, which make the operation simple and easy.
- Excellent performance and stability: Totally enclosed monochromator and optical mirror coated with SiO_2 to guarantee the optical components are not influenced by the environment.
1. Philips and Milas lamps
2. Newly improved screw pole drive structure makes good wavelength repeatability and high wavelength accuracy
3. Totally new design, superior materials and rigorous production process
-Advanced photoelectric cell test system
1. 32 bit ARM11 micro-controller with clock speed upto 533MHz
2. 20 bit analog digital device specialized for photoelectric data collection
3. Support internal data storage there are standard RS232, USB(A) and USB(B) port
-Simple and convenient maintenance
1. Socket type lamps make the optical adjustment unnecessary and maintenance is much easier
2. Separated optical and circuit system has no cross influence and makes the instrument more reliable

Specifications	ZSP-100 DBA
Display	7 inch TFT colour capacitive touch screen
Wavelength Range	190-1100nm
Optical System	Double Beam
Spectral Bandwidth	1nm

Specifications	ZSP-100 DBA
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	≤0.2nm
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C (0-9999F)
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)
Scanning Speed	Low, Medium, High (up to 3000nm/min)
Stray Light	≤0.05%T@220nm, 360nm
Baseline Flatness	±0.002A
Drift	0.002A/30min@500nm
Noise	0.0003A@500nm
Working Mode	T, A, C, E
Wavelength Setting	Automatic
Detector	Solid Silicon Photodiode
Light Source	Tungsten Halogen/ Deuterium Lamp
Output Port	USB HOST, USB DRIVE, RS232
Power Requirements	AC 110-220V 50-60Hz
Humidity Range	Less Than 85%
Shipping Dimensions	770 × 630 × 340mm
Weight	27kg