

# YKC-7102S

## Double Beam UV Visible Spectrophotometer



### Instrument features:

1. The instrument uses a 7-inch color LCD screen and an easy-to-use graphical interactive interface design. The host can independently complete photometric measurement, quantitative weighing, spectral scanning, kinetics, DNA/protein testing, and multi-wavelength testing.
2. Using PC software to reverse control the instrument can obtain more extensive extended applications. The software follows the use specifications of GLP/GMP laboratories and has built-in complete user management, log recording, data storage traceability and report output functions;
3. Powerful storage function, can save various types of data and spectra, equipped with a standard USB interface, can directly export data for editing, and the measurement and storage data have a power-off retention function.
4. Unique design with excellent optical performance, using holographic grating monochromator, digital photocell detector, low stray light and noise, high photometric accuracy and stability.
5. Ultra-fast scanning speed, easy tracking of chemical reaction process, full-wavelength drive system, automatic calibration at startup, automatic light source switching, and automatic zeroing.
6. The instrument can be equipped with special accessories such as wireless Bluetooth printer, automatic cuvette, film sample holder, test tube cuvette holder, constant temperature pool holder, optical integrating sphere, reflection accessory, variable optical path sample holder, variable angle solid sample holder, etc.

### Technical parameters:

1. Display: 7-inch color LCD screen
2. Optical system: Dual beam
3. Wavelength range: 190-1100nm:



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4. Spectral bandwidth: 0.5/1.0/2.0/4.0/5.0nm adjustable
5. Wavelength accuracy:  $\pm 0.1\text{nm}$  (at 656.1nm),  $\pm 0.3\text{nm}$  full area
6. Scanning speed: high, medium, slow
7. Photometric range: -0.3-3A, 0-9999C (0-9999F)
8. Transmittance accuracy:  $\pm 0.3\% \tau$  (0-100%  $\tau$ )  $\pm 0.002\text{A}$  (0~0.5A)  $\pm 0.003\text{A}$  (0.5A~1A)
9. Transmittance repeatability: 0.15%  $\tau$  (0-100% $\tau$ )  $\pm 0.001\text{A}$  (0~0.5A)  $\pm 0.0015\text{A}$  (0.5A~1A)
10. Baseline flatness:  $\pm 0.0015\text{A}$
11. Stray light: 0.03%T (220nm, 360nm)
12. Noise:  $\pm 0.0002\text{A}$  (after 500nm preheating)
13. Light source: imported deuterium lamp, imported tungsten lamp
14. Receiver: imported silicon photodiode
15. Photometric mode: transmittance/absorbance/concentration/energy
16. Host function: photometric measurement, quantitative analysis, wavelength scanning, multi-wavelength measurement, kinetic analysis, DNA/protein measurement
17. Data interface: online/data output/print