Zuzi visible spectrophotometer

Code HJB007 | Model 4310/3

Instrument used in laboratories in different sectors, such as life sciences, material sciences, health, education, environmental protection. It also finds application in quality control laboratories in many industries, such as chemical, pharmaceutical, metallurgical, textile, etc.

- Optimized optical system design ensures higher measurement accuracy.
- Cast aluminum base and molded plastic housing provide increased strength and durability.
- Improved wavelength accuracy and repeatability and noise reduction due to the new wavelength control mechanism (patented).
- High-resolution TFT color LCD touch screen provides excellent display effect and easy operation.
- Auto-calibration and countdown of preheating at start-up.
- File management function.
- Automatic wavelength setting.
- Can be connected to a printer for direct output of measurement results.
- EasyUV Basic PC software included. Optional EasyUV software (not included).
- IQ/OQ/PQ protocols available.

Model	4310/3
Reference	HJB007
Optical system	Single beam, 1200 lines/mm grating
Wavelength range	320-1100 nm
Wavelength accuracy	±0.5 nm
Wavelength repeatability	≤0.2 nm
Wavelength resolution	0.1 nm
Wavelength swing speed	10000 nm/min
Wavelength scanning speed	20-4200 nm/min
Light source	Tungsten lamp
Spectral bandwidth	4 nm
Detector	Silicon photodiode
Photometric range	-0.3-3 A, 0-200 %T, 0-9999.9 C
Modes	Photometry, quantitation, spectrum
Sample compartment	Sample holder with manual handle for four 10mm cuvettes
Display	5-inch TFT color touch screen
Storage	236 KB (built-in), unlimited by external USB
Interface	RS232 serial port × 1 (printer), USB-A × 1 (USB memory/ USB printer), USB-B × 1 (PC)
Power supply	100-240 VAC, 50/60 Hz, 75 W
Dimensions (LxWxH)	450x370x187 mm
Weight	10.5 kg

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Functions

Photometry

- A/%T/E conversion
- Results can be recorded, renamed, deleted, saved, and printed

Quantitation

- Single wavelength, dual wavelength (difference, ratio)
- Three ways to establish a standard curve (input coefficients, measure 2-10 standard samples or input absorbance and concentration values of standard samples)
- Three fitting methods (linear through zero, linear, quadratic)
- Standard curves can be saved and loaded
- 19 built-in common concentration units and user-defined units (up to 8 characters)
- Results can be recorded, renamed, deleted, saved, and printed

Spectrum

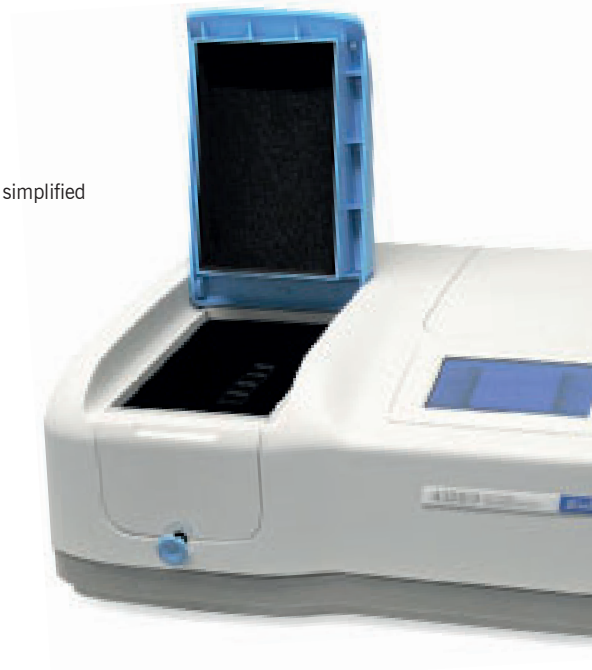
- The scanning speed is optional (low, medium, high)
- The scanning interval is optional (0.1, 0.2, 0.5, 1.0, 2.0, 5.0, 10.0nm)
- A/%T display mode can be switched
- Automatic peak search
- Point by point (peak) view
- Adaptive and modifiable coordinates
- Curves and data can be deleted, saved, and printed

File

- Files can be deleted, renamed, batch imported/exported, converted to .txt and .csv format

System

- System calibration (dark current, wavelength, system baseline)
- Light source management (light source switch, timing)
- Clock
- Memory management (storage status display, formatting)
- Six languages can be switched (English, Spanish, French, Portuguese, German, simplified Chinese)
- General setting (beep, brightness, close display after, sample holder)
- Restore defaults
- About (system information)



Performance verification

- Wavelength accuracy
- Photometric accuracy
- Stray light
- Noise
- Dark noise
- Stability
- Spectral bandwidth