



Spectrophotometer UV/Vis, double beam, adjustable bandwidth 0.5/1/2/4/5 nm

Code HJD013 | Model 4330/9

- 1200 l/mm holographic grating with low stray light and optimised design of the dual-beam optical system ensure higher measurement accuracy.
- Reinforced structure design makes the instrument stronger and more durable.
- Improved wavelength accuracy and repeatability and noise reduction due to the new wavelength control mechanism (patented).
- Built-in computer (10.1-inch IPS colour LCD touch screen) provides excellent viewing effect and easy operation.
- Self-calibration and warm-up on start-up.
- Powerful measurement and analysis functions and open self-defined measurement methods can meet the measurement requirements of scientific research.
- The software (UVstudio) has GLP/GMP functions, which can effectively track and manage instrument performance and measurement data.
- File management function.
- Through a variety of interfaces (USB, Ethernet, VGA, HDMI, expandable Bluetooth, WIFI, SD card reader, etc.) you can connect keyboards, mouse, scanners and printers for data input and output, and access networks for remote control, data transmission and exchange.
- IQ/OQ/PQ protocols available



Reference	HJD013
Model	4330/9
Optical system	Double beam, 1200 lines/mm grid
Wavelength range	190-1100 nm
Wavelength accuracy	±0,3 nm
Wavelength repeatability	≤0,1 nm
Wavelength display	0,1 nm
Wavelength swing speed	20-4200 nm/min
Wavelength scanning speed	10000 nm/min
Light source	Tungsten, Deuterium
Spectral bandwidth	0.5/1/2/4/5 nm
Modes	Photometry, Quantitation, Spectrum, Kinetics, Time scanning, Multi Wavelength, DNA/ Protein, Custom Method
Detector	Dual silicon photodiode
Photometric range	-0,3-3 A, 0-200 %T, 0-9999.9 C
Sample holder	1 x 10 mm cuvettes
Display	IPS colour capacitive touchscreen, 10.1 inches, resolution 1280 x 800
Storage	64 GB, unlimited (USB storage, SD card, network storage)
Interface	USB-A x3 (extensible, connectable to printer, storage, mouse, keyboard, and other), USB-B x1 (PC), RJ-45 x1 (Ethernet), VGA x1, Bluetooth (extensible), WIFI
Power	100-240 VAC, 50/60 Hz, 140 W
Dimensions (LxWxA)	580x420x230 mm
Weight	15 kg



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Functions

Photometry

- A/%T conversion
- Custom coefficient

Multi Wavelength

- Measure up to 20 wavelengths at a time.
- Customize formulas for data calculation.
- User-selectable one-point measurement times (1-50)
- Parameters can be saved and loaded.
- Results can be recorded, renamed, deleted, saved, printed, and exported (Excel, Word, PDF, etc.)

Time scanning

- Unlimited scanning time.
- Scan interval can be customized.
- Point by point (peak) view, mark and select.
- Adaptive coordinates and a variety of ways to modify coordinates.
- Curves and data can be deleted, saved, printed, and exported (Excel, Word, PDF, etc.)
- Curves can be saved and printed automatically.

Kinetics

- Unlimited scanning time.
- Delay time and interval can be customized.
- Automatically calculate kinetic rates.
- Point by point (peak, view, mark and select.
- Adaptive coordinates and a variety of ways to modify coordinates.
- Curves and data can be deleted, saved, printed, and exported (Excel, Word, PDF, etc.)
- Curves and results can be saved and printed automatically.

Quantitation

- Single wavelength, dual wavelength (difference, ratio), three wavelength and custom methods.
- 3 ways to establish a standard curve (input coefficients, measure 2-20 standard. samples or input absorbance and concentration values of standard samples)
- 4 fitting methods (linear through zero, linear, quadratic, cubic)
- Parameters can be saved and loaded.
- Standard curves can be saved and loaded.
- Built-in common concentration units and user-defined units.
- Diagram of measure values are displayed, and results are determined automatically.
- Results can be recorded, named, deleted, saved, printed, and exported (Excel, Word, PDF, etc.)
- Customized report layouts.



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DNA/Protein

- 7 built-in methods (260/280, 260/320, Lowery, UV method, BCA, CBB, Biuret), custom calculation.
- User-selectable one-point measurement times (1-50)
- Parameters can be saved and loaded.
- Display the distribution map of the measured values and automatically determine the results.
- Results can be recorded, named, deleted, saved, printed, and exported (Excel, Word, PDF, etc.)
- Customized printed reports.

Spectrum

- The scanning speed is optional (low, medium, high)
- The scanning interval is optional (0.1, 0.2, 0.5, 1, 2, 5, 10 nm)
- A/%T display mode can be switched.
- Automatically find the peak.
- Point by point (peak) view, mark and select.
- Rich map processing functions (arithmetic operation, derivation, area, and 3D map)
- Adaptive coordinates and a variety of ways to modify coordinates.
- Curves and data can be deleted, saved, and printed (Excel, Word, PDF, etc.)

File

- Files can be deleted, renamed, batch imported/exported.

Custom

- Edit formulas as needed.
- Formulas can be used for multiple modules.
- Formulas can be added, modified, and saved as necessary.

System

- System calibration (dark current, wavelength, system baseline)
- Light source (light switch, timing)
- Clock management.
- Storage management (storage status display, formatting)
- Language.
- General setting (display resolution, system parameter, etc.)
- Reset.
- About (system information)

Performance verification

- Wavelength accuracy and wavelength repeatability verification
- Photometric accuracy and photometric repeatability verification
- Stray light verification
- Resolution verification
- Linearity verification