

V-630Bio

Dedicated UV-Vis Spectrophotometer

Specific functionality for Life Science

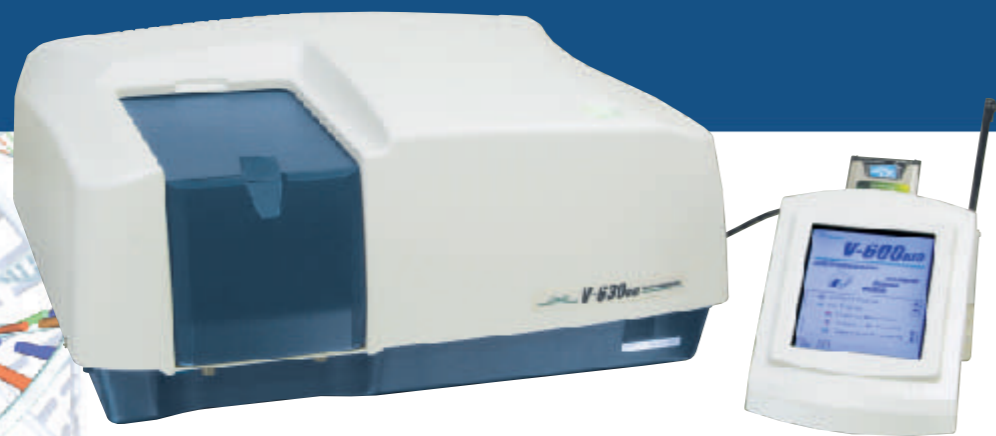


Jasco

V-630Bio

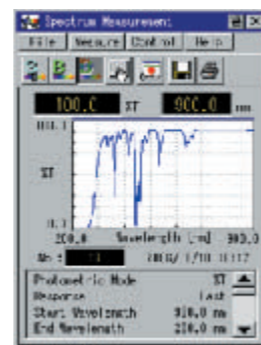
Stand-alone UV-Vis Spectrophotometer

Dedicated functionality for Life Science applications



The V-630Bio is a dedicated stand-alone instrument system for life science applications. It consists of the V-630, an intelligent Remote Module (iRM) specifically designed for biochemical and clinical analysis and a micro cell holder. The iRM conveniently guides the operator through routines encompassing data acquisition to data processing. Features for simplicity and ease of use include the IQ Accessory function for automatic accessory recognition and IQ Start which initializes registered programs for collection of data during routine measurements. Auto print and Auto save functions make daily analyses fast and easy.

- Simplicity and ease of use with IQ Accessory and IQ Start functions
- High speed scanning at speeds up to 8000 nm/min
- Applicable to micro volume samples
- Dedicated bio-application programs
- 4 basic measurement modes
 - Wavelength scanning
 - Quantitative Analysis
 - Time course measurement
 - Fixed wavelength measurement
- A full complement of sampling accessories
- USP, EP and JP compliant instrument validation software



iRM-700 Intelligent Remote Module

The iRM-700 intelligent remote module incorporates a wide display with a color LCD touch screen and provides access to all functions necessary for bio-analytical analyses methods. The iRM conveniently guides the operator through routines encompassing data acquisition to data processing. The obtained data can be automatically printed to USB printers, or saved to a compact flash memory card for further processing on a PC.

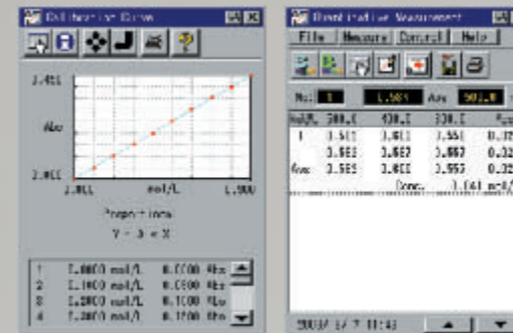


Easy data transfer to a PC



Print to a USB printer

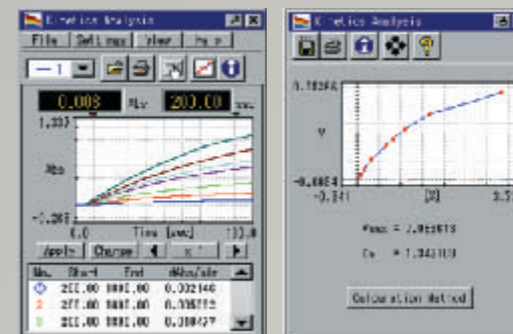
Quantitative analysis of proteins



Six kinds of calibration curves for the quantitative analysis of proteins are included:

- UV Absorption
- BCA method
- Bradford method
- Lowry method
- WST method
- Biuret method

Kinetics measurement/analysis

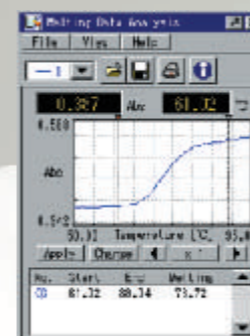


Time course measurements of enzymatic reactions using multiple substrate solutions can be performed, then analyzed to obtain the kinetics coefficients K_m and V_{max} , the maximum reaction velocity. Three graphic plots can be selected:

- Lineweaver-Burke plot
- Hofstee plot
- Eadie plot

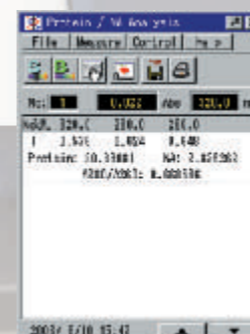
This program is compatible with automatic cell changers, thus data acquisition and analysis can be performed for multiple sample cells.

Temperature measurement and Melting analysis



This program performs a DNA melt, controlling the temperature of a Peltier accessory and measuring a specified absorption wavelength, calculating the melting point, T_m , based on the collected data. The program is compatible with automatic cell changers, thus data acquisition and analysis can be performed for multiple cells.

Protein Nucleic acid quantitation



This program measures the absorbance of the sample at specified wavelengths or calculates concentrations of proteins and nucleic acids using the Warburg/Christian method. The program permits analyses by using a specified method or by selecting the user's desired analysis conditions. The desired analysis method can be selected from the following five choices:

- Ratio between Abs @ 260 and 280 nm
- Ratio between Abs @ 230 and 260 nm
- Warburg/Christian factor calculation method
- User-defined absorbance ratio calculation
- User-defined concentration calculation

It is also possible to select the wavelength for background correction and to select whether background correction is to be performed. Generally, correction at 320 nm is performed for turbid samples.

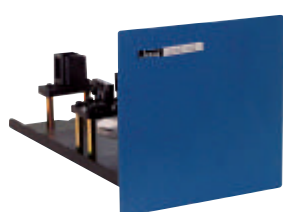
A range of optional accessories

A variety of optional accessories are available which are compatible with applications for life science. Accessories which accept micro cells, Peltier thermostatted cell holders essential for DNA melting or automatic cell changers with multiple cells can be specified for the V-630Bio instrument.

ETC-717 Peltier single cell holder (water-cooled)

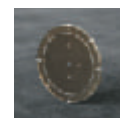
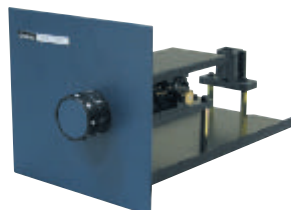


EMC-759 5 µL micro-cell holder



5 µL micro-cell

TCH-703 8-position turret micro cell holder



4 µL 8-position turret micro cell

PAC-743 (743R)

6/8-position automatic Peltier cell changer



Available options for the PAC-743 (PAC-743R) accessory:

- 8-position micro cell block
- 8-position 5 mm cell block
- 6-position 10 mm cell block



8-position micro cell

Accessory examples for V-630Bio:

- EMC-709 Micro cell holder
 - EMC-759 5 µL ultra-micro cell holder
 - HMC-711 Water thermostatted micro cell holder (100 µl, 200 µl)
 - NCP-706 Water thermostatted 6-position automatic cell changer *
 - EHC-716 Peltier thermostatted single cell holder (air-cooled) *
 - ETC-717 Peltier thermostatted single cell holder (water-cooled) *
 - PSC-718 Automatic 6-position Peltier cell changer (air-cooled) *
 - PAC-743 Automatic 6/8-position Peltier cell changer (water-cooled)
 - PAC-743R Automatic 6/8-position Peltier cell changer (water-cooled, temperature controlled reference)
 - ASU-605 Auto sampler unit
 - NCS-609 Syringe pump (for ASU-605)
 - SFC-712 Flow cell holder for 5/10 mm path length
- * Accepts 10 mm x 10 mm rectangular micro quartz cells (path length of 10 mm, sample area width of 2 mm)

Autosampler system with microtiter plates



Up to 192 samples can be automatically measured using 2 microtiter plates

● Specifications are subject to change without notice.



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