

Dynamica

designed in Australia



Halo DB-20S

UV-VIS Double Beam Spectrophotometer

High Resolution, Proven Architecture

Dynamica announces the debut of DB-20S, a 1nm spectral bandwidth spectrophotometer based on the successful DB-20 architecture. DB-20S has inherent the same features of DB-20, and is refined to meet the resolution demanding application especially the pharmaceutical and precise analytical field. DB-20S achieves and obtains finest spectrum without compromising the performance and sensitivity. DB-20 will still be available for the conventional application such as life sciences and environmental application.

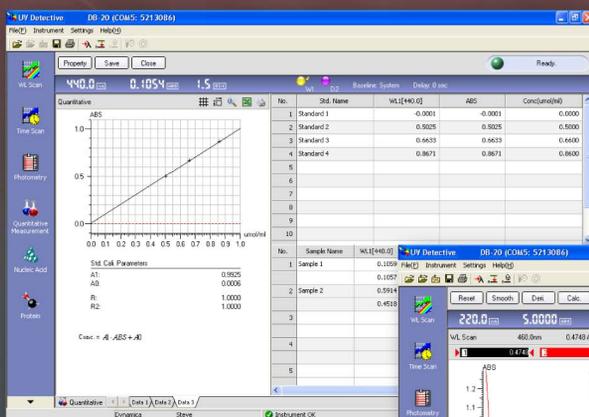
- Wavelength range: 190 - 1,100nm
- Spectral bandwidth: 1nm for stringent resolution requirement
- Stand alone or PC operation
- Extra large backlit LCD screen
- Built lab tough
- High scan speeds, 8 steps selectable
- Wide range of accessories

Optional UV Detective PC Control

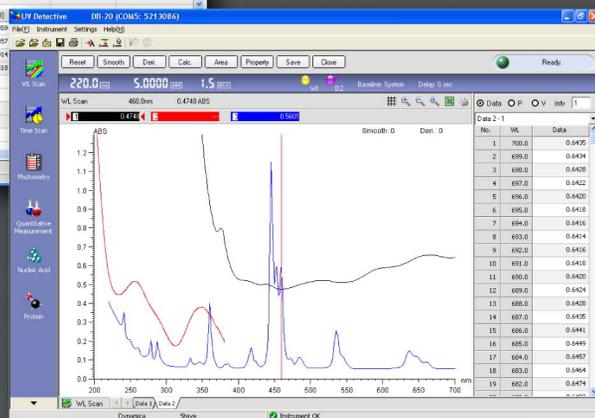
The Halo DB-20/ DB-20S is PC controllable using the optional UV Detective software. Refer to page 2 for further details on the UV Detective software. UV Detective can also operate optional accessories such as the sample sipper and 6-cuvette holder.

Easy Operation

DB-20/20S can be operated by built-in keypad. Large LCD ensures easy viewing processing of data. Data can be saved to an external USB flashdrive* and transferred to a PC for further processing.



**BUILT
LAB TOUGH**

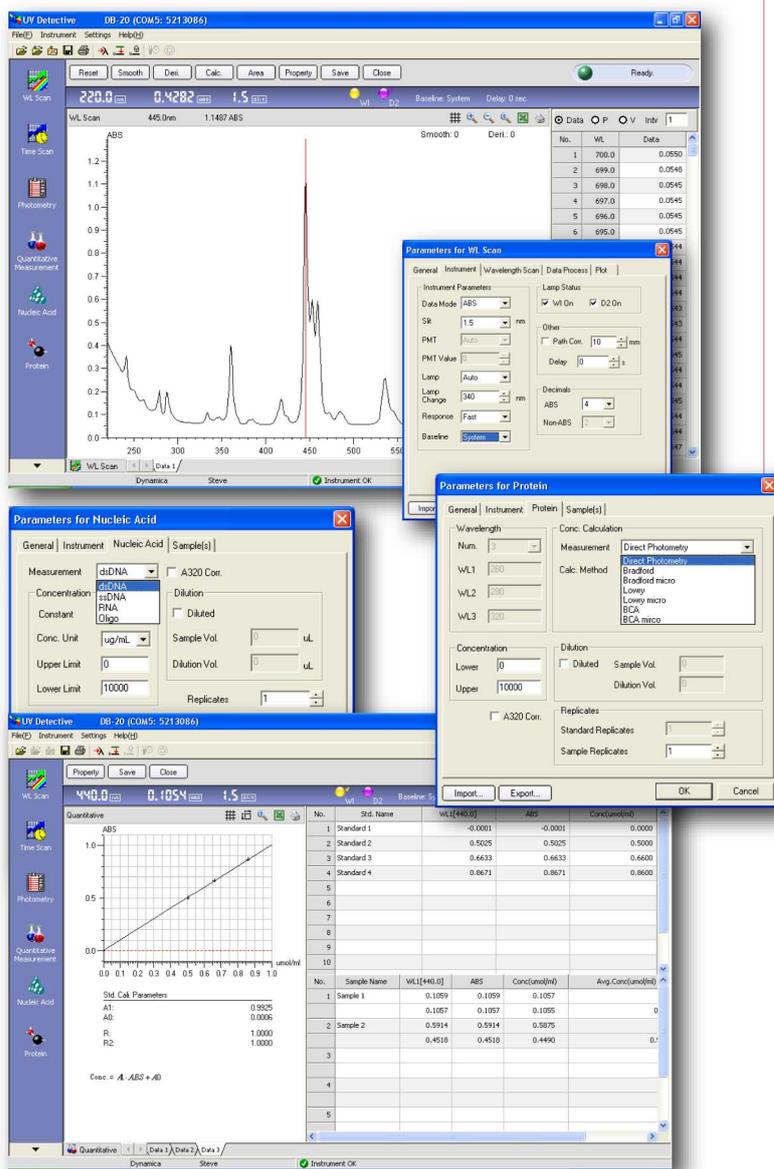


UV Detectve PC Software Package

UV Detectve is Dynamica's powerful, user friendly PC software specifically designed for the control and data processing of selected Halospectrophotometers from computers installed with the Windows® XP Pro and Vista operating system.

The versatile UV Detectve can control all spectrophotometer operations such as photometry, wavelength scans, time scans and more. Further functions include storage of methods programs, saving of numerical and graphical data, downstream data processing, data transfer to commercial spreadsheets such as Microsoft® Excel and report generation.

Compatible Spectrophotometers	Halo RB-10 (optional), Halo DB-20/DB-20S (optional), Halo DB-30 (standard)
Control Functions	Wavelength setting, auto-zero, auto calibration, optical path calibration, accessories such as 6-cuvette positioner and sipper
Measurement Conditions	Start-up, setting, output and storage of measurement parameters
Measurement Function	Wavelength scan, time scan, quantitative analysis, multi-spectrum measurement, kinetic analysis, concentration measurement, nucleic acid / protein measurements
Data Output	Display of spectra, data and scans (time and spectrum)
Quantitative Methods	Multi-wavelength, input of constant, standard curve calibration (linear, quadratic, cubic and segment)
Data Processing	Integral, derivative, flatness, calculation (spectrum and constant), kinetic



DB-20/DB-20S Ordering Information

PRODUCT	CATALOG NUMBER#
• Halo DB-20 UV-Visible Double Beam Spectrophotometer 110 - 220 V selectable, 50/60Hz	DB-20-220
• Halo DB-20S UV-Visible Double Beam Spectrophotometer 110 - 220 V selectable, 50/60Hz	DB-20S-220
• Rectangular Long-Path Cuvette Holder	DB-20-RLPH
• Cylindrical Long-Path Cuvette Holder	DB-20-CLPH
• Thermostatic Cuvette Holder (includes tubing)	DB-20-TCH
• Manual 5-Cuvette Holder/Changer	DB-20-FCC
• Auto 6-Cuvette Holder/Changer with temperature control and stirrer	DB-20-SCCT
• Auto 6-Cuvette Holder/Changer without temperature control and stirrer	DB-20-SCC
• Micro-cuvette Holder *	DB-20-MCH
• Micro-cuvette - quartz: 50µl / 10mm optical path length *	MC-50
• Auto Sample Sipper with temperature control *	DB-20-SST
• Auto Sample Sipper without temperature control *	DB-20-SS
• Micro Flow Cuvette Holder *	DB-20-MFH
• Glass Sample Holder	DB-20-GSH
• Film Sample Holder	DB-20-FSH
• UV Detectve Software	UVDS-08-01

Note: * - Not Applicable to Halo DB-20S

SPECIFICATION	HALO DB-20	HALO DB-20S
Optics	Concave diffraction grating / Double Beam	
Wavelength Range	190nm - 1,100nm	
Spectral Bandwidth	1.5 nm	1.0 nm
Stray Light	≤0.05% (220nm NaI, 340nm NaNO ₂)	≤0.10% (220nm NaI, 340nm NaNO ₂)
Wavelength Accuracy	±0.3nm	
Photometric Range	Absorbance: -3 to +3 %T: 0% to 300%T Concentration: 0,000 to 9,999	
Wavelength Scan Speed	10, 100, 200, 400, 800, 1,200, 2,400, 3,600 nm/minute	
Baseline Stability	0.0003 Abs/hr (500nm, after 2 hours)	
Noise Level	0.0003 Abs (500nm)	
Light Source	Tungsten-Halogen and Deuterium Lamps	
Light Source Switching	Automatic switching selectable from 325nm to 370nm	
Detector	Silicon Photodiode	
Display	Back-lit LCD 190(W) x 138(H) mm	
Dimensions	505(W) x 705(D) x 225(H) mm	
Net Weight	29Kg	
Gross Weight	35Kg	
Power Requirements	110 - 220 V selectable, 50/60Hz	

Presented by: