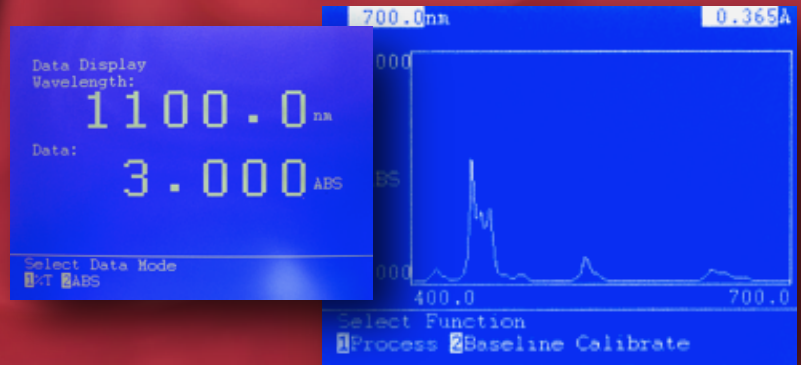




## HALO RB-10

UV-VIS Ratio Beam Spectrophotometer



### User friendly, highly accurate and versatile

The Halo RB-10 is a ratio beam spectrophotometer with an extensive array of built in functions for versatility and suitability to many analytical and biological applications. The ratio beam optics impart greater accuracy and reproducibility than the conventional, single beam optics.

### Powerful UV Detectable PC Control

In addition to the onboard software, the Halo DB-20 can be PC controlled using the UV Detectable software (optional). Refer the rear page for further details on the UV Detectable software. UV Detectable can also operate optional accessories such as the sample sipper and 6-cuvette holder.

The UV Detectable software is powerful but user friendly depicted in the process flow below:

1. Select Function (e.g. Photometry)
2. Set Method Parameters
3. Auto-zero or Baseline
4. Sample test
5. Data processing
6. Report Generation

- Spectral Range: 190 - 1100nm
- Bandwidth: 4nm
- Dual Lamp Advantage
- Onboard Software for ABS, %T, Conc
- Extended Scanning Functions
- Variable Scanning Speeds
- GMP/GLP Validation Routines onboard
- Manual 4-cell changer included
- Wide Range of Accessories
- UV-Detectable PC Software Package (optional)

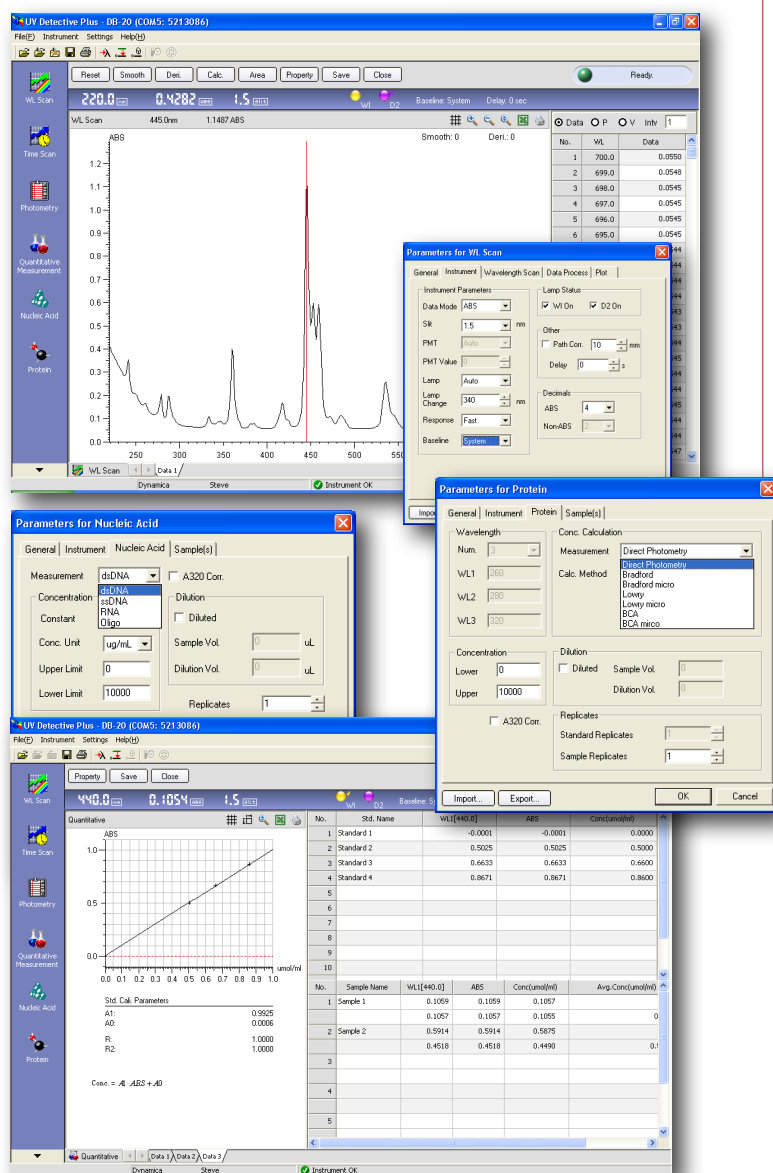
**B U I L T**  
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## UV Detective PC Software Package (optional)

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

The versatile UV Detective 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 (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



HALO RB-10 Accessories (please see main catalog or website for full details)

- Rectangular Long-Path Cuvette Holder
- Test Tube Holder
- Thermostatic Cuvette Holder
- Micro-cuvette Holder
- Auto Sample Sipper (without temperature control)

### HALO RB-10 Specifications

Optics	Concave diffraction grating / Ratio Beam
Wavelength Range	190nm - 1100nm
Spectral Bandwidth	4 nm
Stray Light	<= 0.05%T (220nm NaI, 340nm NaNO <sub>2</sub> )
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	±0.25nm
Setting Wavelength	0.1nm increments
Photometric Accuracy (NIST 930D filter)	±0.002Abs (0-0.5Abs) ±0.004Abs (0.5-1Abs) ±0.008Abs (1-2Abs) ±0.3% T
Photometric Repeatability (NIST 930D filter)	±0.001Abs (0-0.5Abs) ±0.002Abs (0.5-1Abs) ±0.004Abs (1-2Abs) ±0.15% T
Measurement Mode	Abs, %T, Concentration
Photometric Range	Absorbance: -3 to +3 %T: 0% to 300%T Conc: 0.000 ~ +9.999
Wavelength Scan Speed	10, 100, 200, 400, 800, 1200, 2400, 3600 nm/minute
Baseline Flatness	±0.005Abs (200-950 nm)
Baseline Stability	0.0001 Abs/hr (500nm, after 2 hours)
Noise Level	<= 0.0005 Abs (500nm)
Light Source	Tungsten-Halogen and Deuterium Lamps
Light Source Switching	Automatic switching at 340nm
Detector	Silicon Photodiode
Instrument Control	Onboard software or via PC with Windows® XP Pro operating system
Printer connection	PCL/3, ESC/P oder DPU
Dimensions / Weight	370(W) x 535(D) x 270(H) mm / 20kg (net), 25kg (gross)
Power Requirements	110 - 220V AC and 50/60Hz (switchable), 200VA

Presented by: