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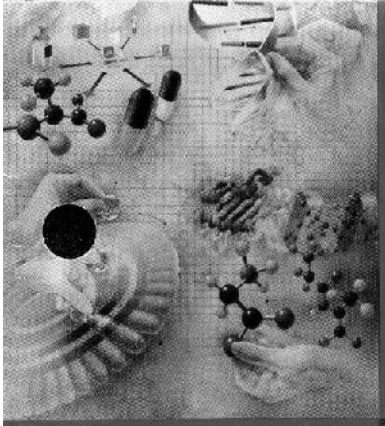
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Find the *Beckman Coulter DU 640B* at our website: *Click HERE*



BR-8173A

DU® SERIES 600 AND 7000

UV/Vis Spectrophotometer Systems



ADVANCED TECHNOLOGY WITH THE HUMAN TOUCH

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THE TRUE STANDARD IN UV/

Advanced Spectrophotometers with the Human Touch

Today's spectrophotometer users expect a complete and integrated system which eases sample handling tasks, accurately measures samples and delivers quality results quickly and easily.

The DU® Series 600 and 7000 spectrophotometers were developed to satisfy these expectations. These are the instruments that are setting a new standard in spectrophotometry.

The window-oriented user interface with full mouse support provides a friendly environment and drastically reduces learning time while increasing productivity.

With all this, the system may reintroduce another lost element to your work...enjoyment.

OPERATIONAL SIMPLICITY

Just point and click the three-button mouse. With very little effort you get final answers. The window-oriented user interface guides you through each application.

FULL RANGE OF MICRO AND ROUTINE ACCESSORIES

For precious and small volume samples, the DU Series 600 and 7000 are the instruments of choice. Their focused beam technology assures precise and accurate measurements even when working with the smallest samples — as little as 5 µL.

The versatile accessories are designed with operational simplicity in mind. A wide range of easily interchangeable cell holders helps you to quickly reconfigure your system. Sippers, batch samplers, bar code reader and a data storage device increase throughput and enhance productivity.

CHOICE OF TECHNOLOGIES

Only Beckman gives you the freedom to choose between conventional scanning and rapid diode array technology.

The DU Series 600 is a scanning system that addresses virtually all applications by providing excellent wavelength resolution and optical performance. For fast spectral data acquisition and high sample throughput, the DU Series 7000 diode array system is the instrument of choice.

APPLICATIONS-ORIENTED QUALITY RESULTS

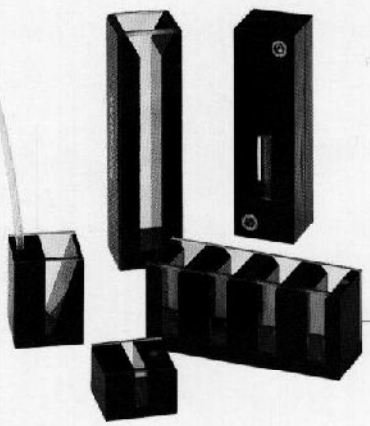
The basic systems provide final answers for applications such as fixed wavelength analysis, wavelength scanning, spectral manipulation and time-based kinetic/rate determinations.

Tailor a system to your needs with easy-to-use, but powerful and sophisticated applications software packages. Obtain reliable and accurate results in seconds without the need for an external computer:

- *Single Component Quantitation*
- *Multicomponent Analysis in Complex Mixtures*
- *Protein Concentration Determination*
- *Nucleic Acid Concentration and Purity*
- *DNA/RNA/Oligo Quantitation and Purity with Theoretical DNA Melting Point (T_m) Determination*
- *Experimental Thermal Melting (T_m) Studies*
- *Enzyme Mechanism with Calculation of K_m, V_{max}, k_{cat}, K_i and Hill Coefficient*
- *Multiwavelength Kinetics (DU 7000)*
- *Fraction Read/Plot*
- *Gel Peak Area Integration and Molecular Weight Determination*

For your convenience, and to improve productivity, method parameters can be modified as desired and stored for later recall.

With full programmability, the DU Series spectrophotometers provide a high degree of flexibility to adapt to your specific application requirements.

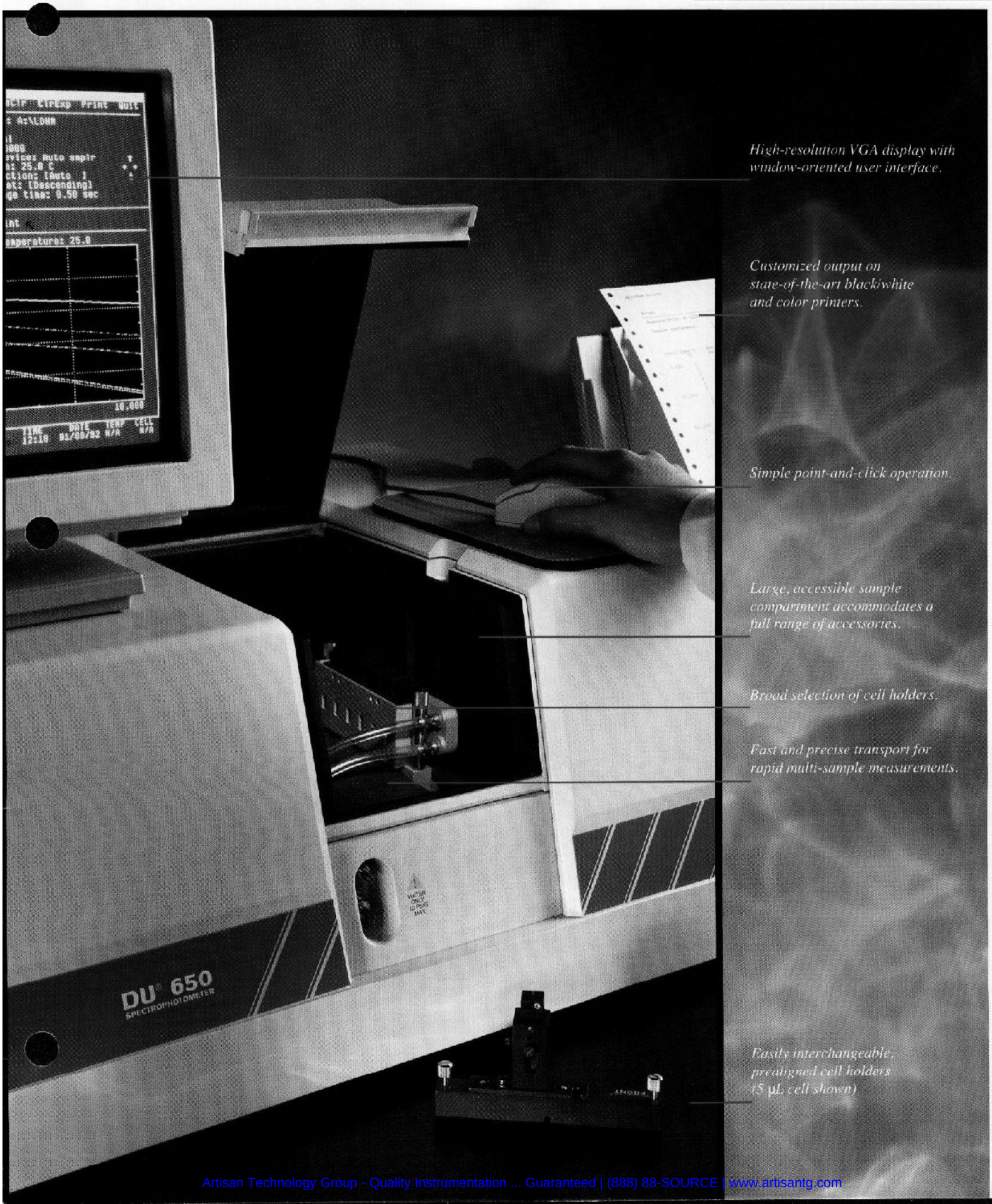


Unique array of microcells from Beckman. Precise and accurate results for the smallest samples.

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VIS SPECTROPHOTOMETRY

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High-resolution VGA display with window-oriented user interface.

Customized output on state-of-the-art black/white and color printers.

Simple point-and-click operation.

Large, accessible sample compartment accommodates a full range of accessories.

Broad selection of cell holders.

Fast and precise transport for rapid multi-sample measurements.

Easily interchangeable, prealigned cell holders (5 µL cell shown)

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DU SERIES 600 SCANNING S

Choose the Scanning System That's Right for You

The DU® 640 is a full-featured scanning UV/Vis spectrophotometer of stable beam optical design and an extended wavelength range from 190 to 1100 nm.

The DU 650 is an enhancement to the DU 640 and is fully step-programmable without the need for an external computer.

Use the three-button mouse to control function and parameter selection — and to input numeric and alphanumeric data via the on-screen keypad. The systems are available with or without the 14-inch VGA color monitor.

Programs for fixed wavelength, wavelength scanning, time-based kinetic/rate determination, addition/subtraction and manipulation of spectra are provided with each instrument. Non-volatile memory comes standard for storage of methods and data.

See Bulletin BR-7944A for applications such as Dissolution Testing, Content Uniformity, %Label Claim and Performance Validation.

ACCESSORIES AND SYSTEM EXPANSIONS

The system comes equipped with a static mount for single cell holders. The transport is required for multi-cell holders and gel scanning.

Single and Multi-Position Cell Holders

- *Single cell holders (unheated and water-regulated temperature control)*
- *Auto 6 cell holders (unheated, water- or Peltier-regulated temperature control)*
- *Micro-Auto 12 cell holder (water-regulated temperature control)*

Sippers and Batch Samplers

- *Sipper accessory with 80 µL flow cell*
- *Micro-Sipper cell accessory with 50 µL aspiratable cell*
- *Serial or programmable random access batch sampler*

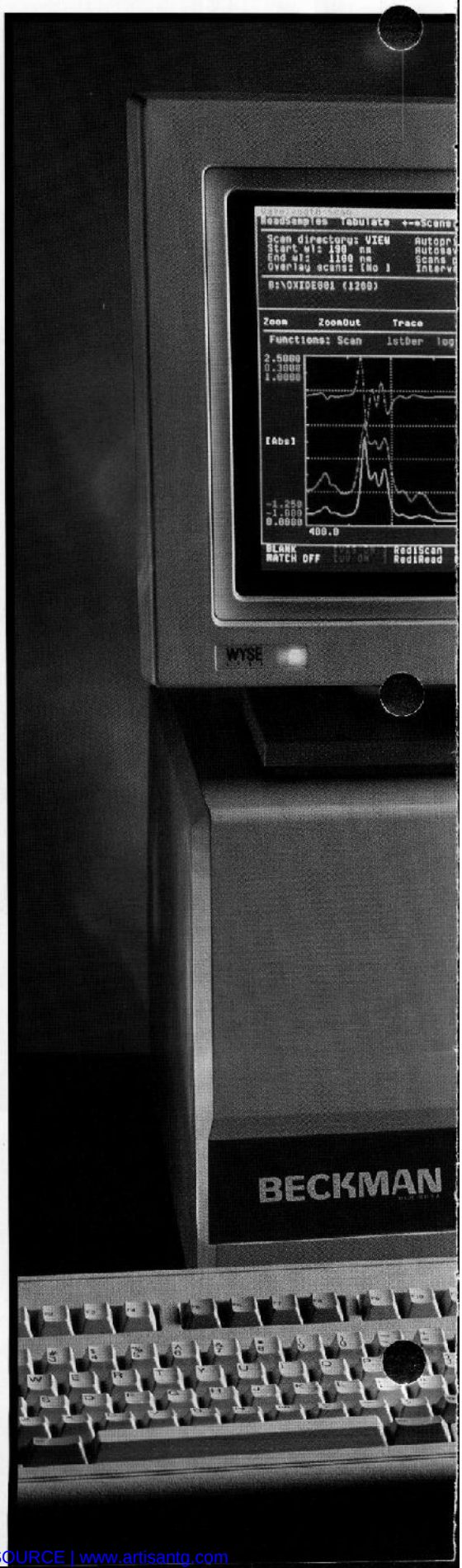
Gel and Film Scanning Accessories

Experimental Micro T_m Accessories

Applications Software

- *Protein Assay*
- *Nucleic Acid Analysis including DNA/RNA/Oligo Quant Mode*
- *Experimental T_m Analysis*
- *Enzyme Mechanism*
- *Enzyme Activity*
- *Single Component Analysis*
- *Multicomponent Analysis by Full Spectrum Quantitation (FSQ™)*
- *Fraction Read/Plot*
- *Gel/Film Peak Area and Molecular Weight Determination*

External Storage Device



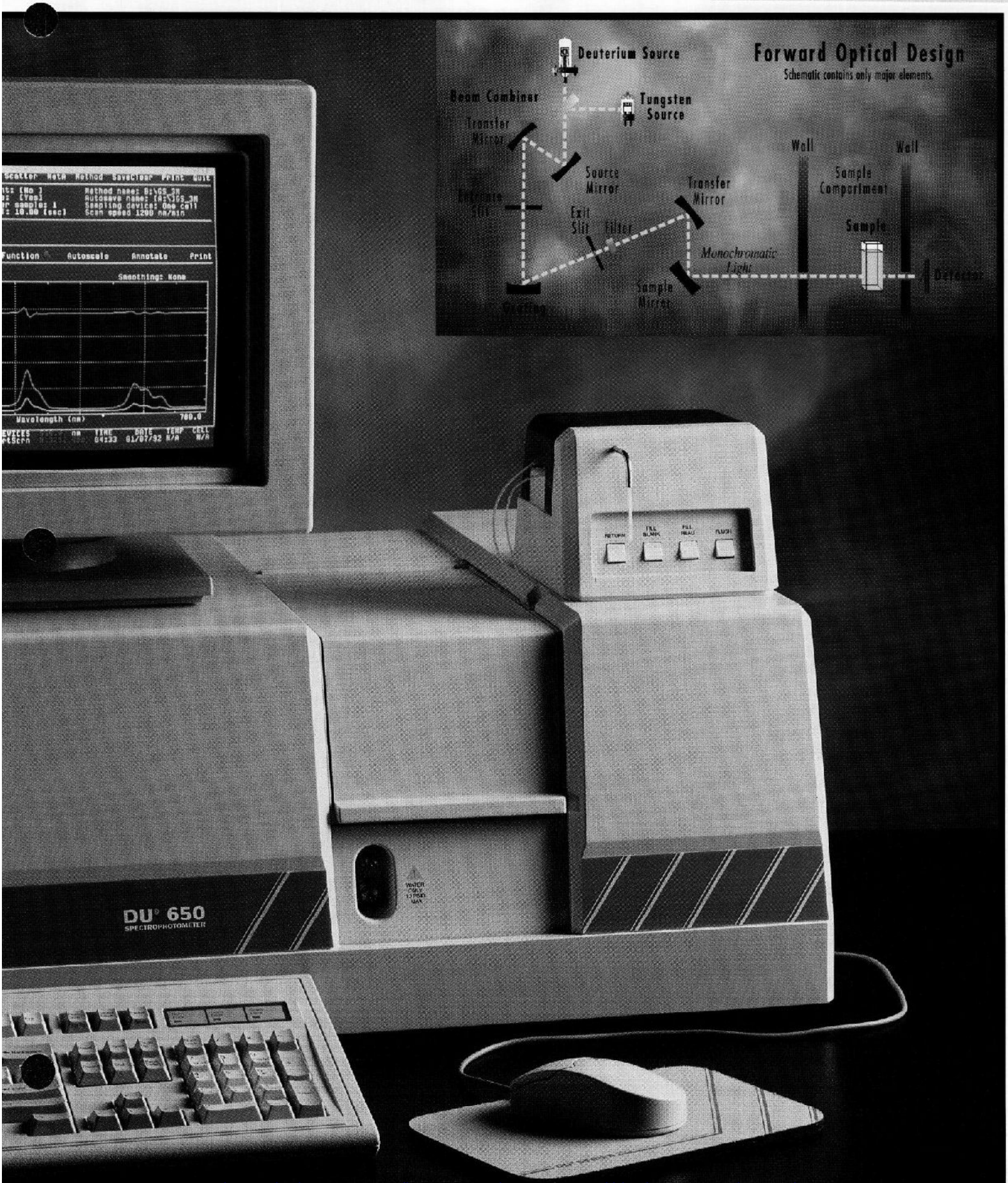
Customize your DU Series 600® spectrophotometer with the many accessories and system expansions available.

* *Keyboard and sipper accessories are optional.*

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DU SERIES 7000 DIODE ARR

Choose the Diode Array System That's Right for You

*The **DU® 7400** is a full-featured diode array UV/Vis spectrophotometer of stable beam optical design with a wavelength range from 190 to 800 nm. With full spectral data acquisition it is the most productive system available.*

*The **DU 7500** is an enhancement to the DU 7400, and is fully step-programmable without the need for an external computer.*

Use the three-button mouse to control function and parameter selection — and to input numeric and alphanumeric data via the on-screen keypad. The systems are available with or without the 14-inch VGA color monitor.

Programs for fixed wavelength, wavelength scanning, time-based kinetic/rate determination, addition/subtraction and manipulation of spectra are provided with each instrument. Non-volatile memory comes standard for storage of methods and data.

See Bulletin BR-7944A for applications such as Dissolution Testing, Content Uniformity, %Label Claim and Performance Validation.

ACCESSORIES AND SYSTEM EXPANSIONS

The system comes equipped with a static mount for single cell holders. The high performance transport is required for multi-cell holders and gel scanning.

Single and Multi-Position Cell Holders

- *Single cell holders (unheated and water-regulated temperature control)*
- *Auto 6 cell holders (unheated, water- or Peltier-regulated temperature control)*
- *Micro-Auto 12 cell holder (water-regulated temperature control)*

Sippers and Batch Samplers

- *Sipper accessory with 80 µL flow cell*
- *Micro-Sipper cell accessory with 50 µL aspiratable cell*
- *Serial or programmable random access batch sampler*

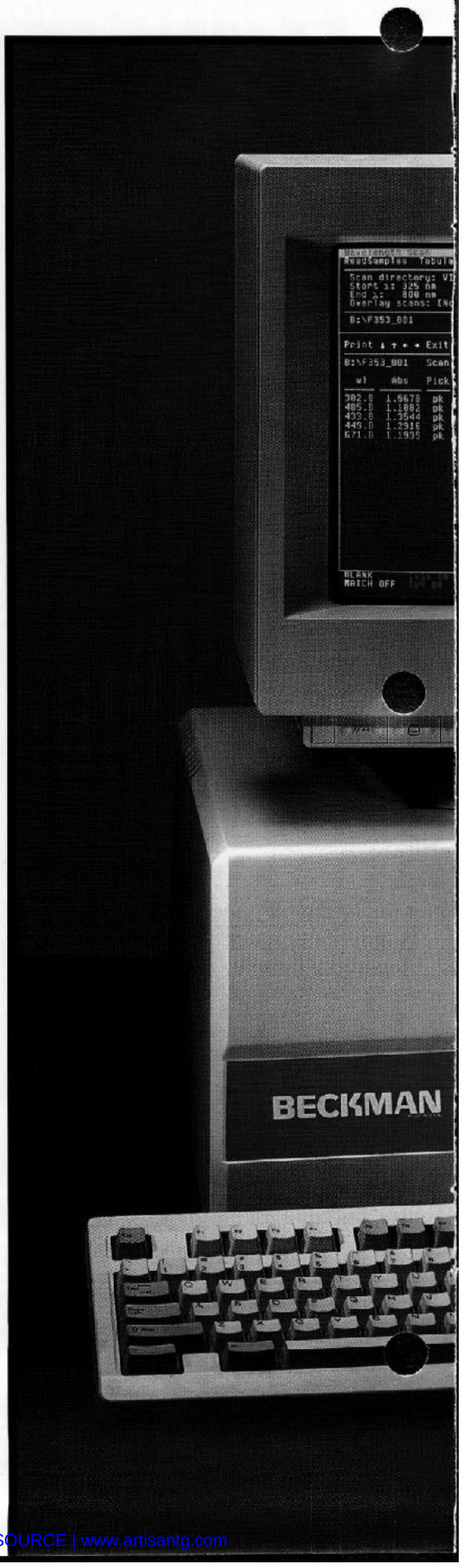
Gel and Film Scanning Accessories

Experimental Micro T_m Accessories

Applications Software

- *Protein Assay*
- *Nucleic Acid Analysis including DNA/RNA/Oligo Quant Mode*
- *Experimental T_m Analysis*
- *Kinetics Plus (Includes Enzyme Mechanism, Enzyme Activity and Multiwavelength Kinetics)*
- *Single Component Analysis*
- *Multicomponent Analysis by Full Spectrum Quantitation (FSQ™)*
- *Fraction Read/Plot*
- *Gel/Film Peak Area and Molecular Weight Determination*

External Storage Device



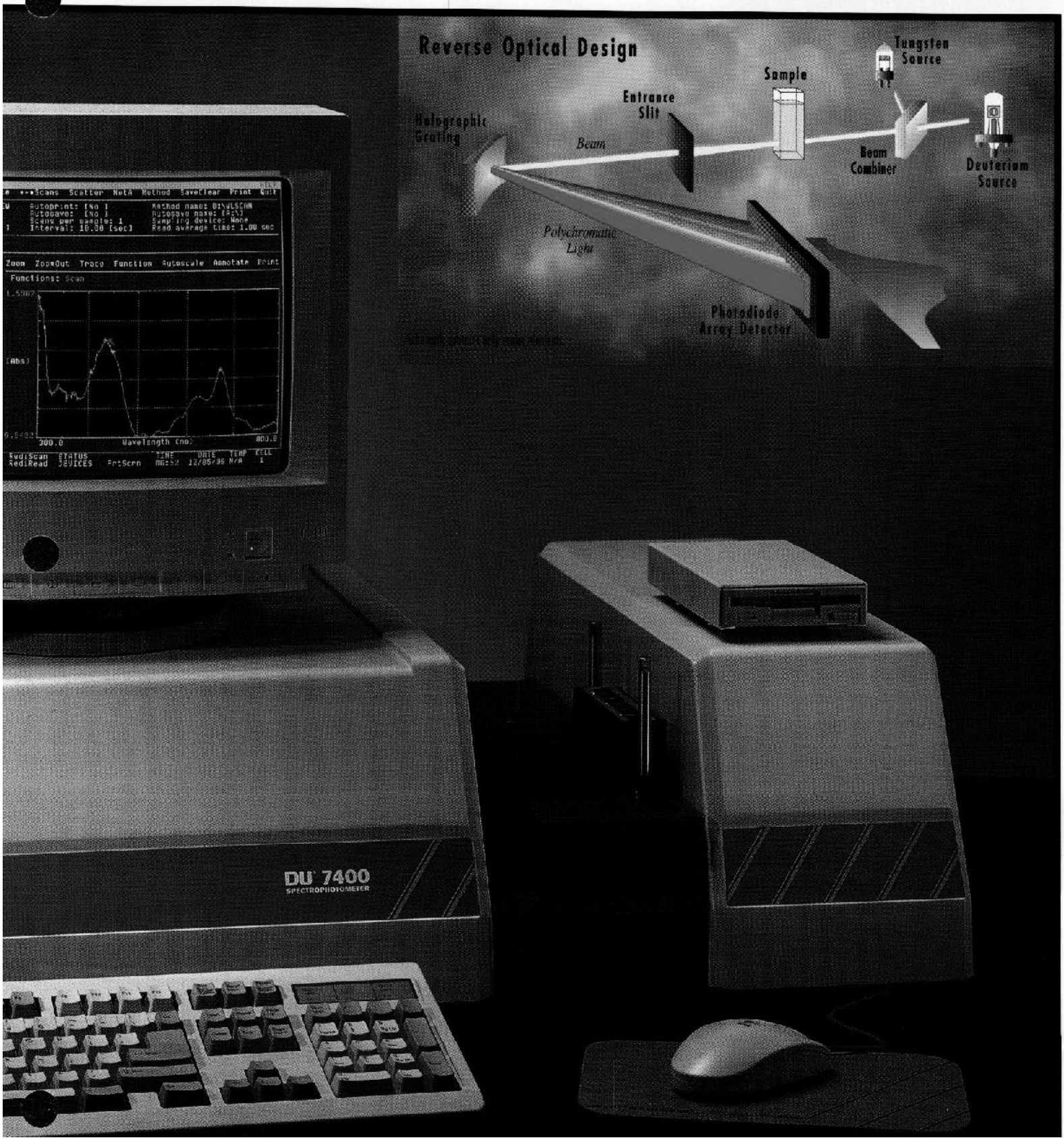
Customize your DU Series 7000 spectrophotometer with the many accessories and system expansions available.*

** Keyboard, external storage device, transport and cell holder are optional.*

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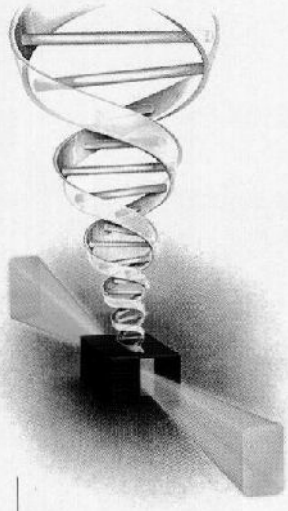
FLEXIBLE SAMPLE HANDLING

Superior Microanalysis and Sample Handling

Beckman is the leader in microvolume and ultra-microvolume sample handling.

The systems' designs are based on stable micro-focused beam technology and assure precise and accurate results for the smallest samples.

Personalize your spectrophotometer to meet your exact requirements and maximize productivity. Our extensive line of modular accessories are interchangeable, so you can quickly and easily configure your system to achieve optimum performance for the tasks ahead.

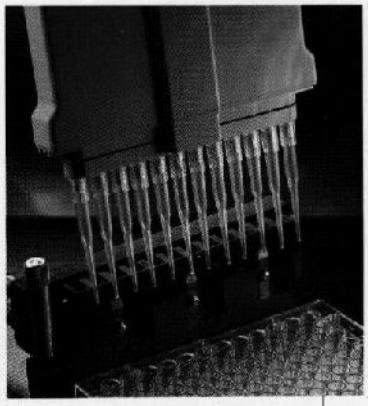


Stable micro-focused beam technology ensures high accuracy when measuring microvolume samples.

VERSATILE MICROSAMPLING

Use our ultra-microvolume system to maintain sample integrity and easily recover precious samples. Choose from an array of microcells:

- *5 µL Capillary Ultra-Microcell for the smallest precious samples*
- *50 µL Microcell for low volumes of less concentrated samples*
- *100 µL Multi-Microcell with four positions for measuring 4, 8 or 12 samples*
- *50 µL aspiratable sipper cell eliminates the need to remove the cell for cleaning and changing samples*
- *325 µL Micro T_m cells*
- *80 µL sipper flow cell*



Transfer up to 12 samples simultaneously from a microtiter plate or introduce your samples one at a time.

FULL RANGE OF SAMPLING DEVICES

Select from an extensive line of cell holders and sample devices. Ambient and thermally regulated single and multiple cell holders are available for standard and microvolume cells.

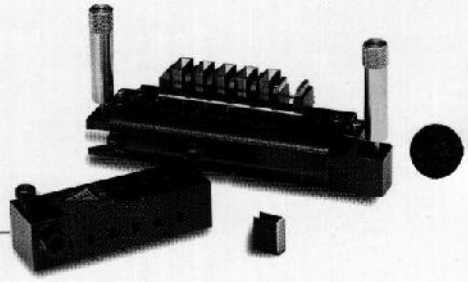
The transport provides speed and precision in positioning your samples for fast and accurate measurements of multiple samples. Increase throughput with the sipper accessory and automate sample delivery with batch samplers.

GEL AND FILM SCANNING

The gel scan accessory automatically and precisely moves your gel or film samples through the stable micro-focused beam. Peak area, concentration or molecular weight determinations are calculated with high precision and accuracy.

EXPERIMENTAL MICRO T_m

The Micro-Auto 6 accessory is a complete system, designed specifically for experimental DNA melting point (T_m) experiments with multiple samples. A high performance temperature controller, Micro-Auto 6 T_m cell holder, low-mass 325 µL cells and integrated software give you maximum sample throughput and accurate temperature control desired for this application.



The Micro-Auto 6 T_m cell holder has been specifically designed for small sample volumes and quick and accurate temperature ramping.

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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