



*NEW Spectrophotometer Packages
from Beckman Coulter*

THE COMPLETE SPECTRO SOLUTION

**UP TO \$6,168
IN SAVINGS!**

Look inside for details!



complete

spectro

solution



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VALUE SAVINGS
\$4,056



DU 640 LIFE SCIENCE PACKAGE

UV/Vis Scanning Spectrophotometer

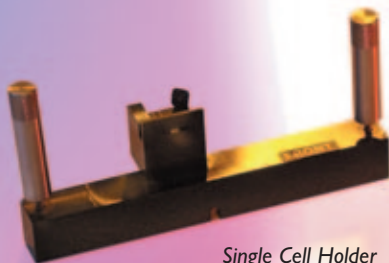
Ideal for molecular biology and proteomic applications

Advanced software included for:

- **Nucleic Acid Analysis** characterizes and quantifies DNA, RNA, and oligonucleotide samples. It calculates the theoretical T_m and checks for protein contamination using standard (260/280) or user-defined ratios
- **Quantitative Total Protein Analysis** of common assays including Bradford, Lowry (low and high sensitivity), Biuret, Bicinchoninate, Direct UV 280, and Colloidal Gold
- **Performance Validation** verifies the performance of the spectrophotometer

Accessories included:

- **Single Cell Holder** – Unheated, holds one standard cell, Semi-Microcell (2 or 4 mm pathwidth) with 10 mm pathlength or the 5 μ L Ultra-Microcell
- **Single Cell Holder for 50 μ L Microcell** – Unheated, holds a single 50 μ L Microcell assuring proper alignment of the sample and permits easy lifting of the cell from the instrument
- **50 μ L Microcell, (quantity 2)** for small volume samples



Single Cell Holder
for 50 μ L Microcell



50 μ L Microcell

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ORDER NOW FROM VWR INTERNATIONAL! 1-800-932-5000 or www.vwr.com

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VALUE SAVINGS
\$4,193



DU 640 CONCENTRATION PACKAGE

UV/Vis Scanning Spectrophotometer

Designed for rugged industrial applications

Advanced software included for:

- **Single Component Analysis** uses up to 30 standard values for calibration curve generation
- **Performance Validation** verifies the performance of the spectrophotometer

Accessories included:

- **Single Cell Holder** – Unheated, holds one standard cell, Semi-Microcell (2 or 4 mm pathwidth) with 10 mm pathlength or the 5 μ L Ultra-Microcell
- **4.2 mL UV Silica Cuvette** – Rectangular, open top and 10 mm pathlength
- **HP Deskjet Color Printer and Cable**



4.2 mL UV Silica Cuvette



HP Deskjet
Color Printer and Cable

o l u t i c

VALUE SAVINGS
\$6,168

DU 640 KINETICS PACKAGE

UV/Vis Scanning Spectrophotometer

Guaranteed to meet your DNA, protein, and kinetic needs

Advanced software included for:

- **Enzyme Mechanism** provides for rapid and easy characterization of a wide variety of enzyme reactions
- **Nucleic Acid Analysis** characterizes and quantifies DNA, RNA, and oligonucleotide samples. It calculates the theoretical T_m and checks for protein contamination using standard (260/280) or user-defined ratios
- **Quantitative Total Protein Analysis** of common assays including Bradford, Lowry (low and high sensitivity), Biuret, Bicinchoninate, Direct UV 280, and Colloidal Gold
- **Performance Validation** verifies the performance of the spectrophotometer

Accessories included:

- **Auto 6 Cell Holder** – With water-regulated temperature control, holds up to six standard cells or Semi-Microcells (2 or 4 mm pathwidth) with 10 mm pathlength
- **Transport** for automatic positioning and movement of samples in the spectrophotometer
- **Accessory Option Board**
- **Virtual Disk Expansion** expands the internal virtual disk capacity for storing methods, data, and results to 1 MB of non-volatile static RAM



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FREE!

DU WinConnection Suite*

Offer worth up to
\$1,100

The DU® 640 UV/Vis Spectrophotometer System is now offered in three complete, turnkey application packages:

- **Life Science**
- **Concentration**
- **Kinetics**

These packages offer an extensive range of built-in software, a wide variety of accessories and a value price to meet your spectro needs. In addition, system installation is provided by a Beckman Coulter factory-trained service engineer *FREE* of charge.

*Limited time offer. Void where prohibited by law.

Valid with the purchase of a DU 640 Spectrophotometer package



Patented
Micro-Focused
Beam Technology

Performance
Validation



FREE Installation



The DU 640 is a full-featured scanning UV/Vis spectrophotometer with micro-focused beam technology to provide precise and accurate results for samples as small as 5 μ L. This spectrophotometer offers an extended wavelength range from 190 to 1100 nm. The DU 640 UV/Vis Spectrophotometer package comes standard with the following software:

- **Fixed Wavelength** with up to 12 selected wavelengths in absorbance or transmittance
- **Wavelength Scanning** from 120 to 2,400 nm/minute with comprehensive analysis and manipulation software
- **Time-based Kinetics** with real-time graphic display and calculation of rate, variance and enzyme activity

DU 640 PERFORMANCE SPECIFICATIONS

Wavelength Range	190 to 1100 nm
Wavelength Setability	0.1 nm increments
Wavelength Accuracy	± 0.2 nm
Wavelength Repeatability	± 0.1 nm
Spectral Bandwidth	≤ 1.8 nm
Photometric Readout	- 0.300 to 3.000 A or 0.0 to 200.0% T
Photometric Accuracy	± 0.005 A
RMS Noise	< 0.0002 A RMS
Stray Light	< 0.05% T
Stability	< 0.003 A/hr
RMS Baseline Flatness	± 0.001 A
Scanning Speeds	120, 240, 600, 1200, 2400 nm/minute
Data Collection Rate	20 samplings/second
CRT	VGA

**ORDER NOW FROM
VWR INTERNATIONAL!
1-800-932-5000**

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Width	69 cm (27 in)
Height	61 cm (24 in)
Depth	53 cm (21 in)
Weight	37 kg (81 lbs)
Electrical	110/120V, 50/60 Hz, 200 watts
Temperature Operating Range	+15°C to 40°C (59°F to 104°F)

Ordering Information

VWR Catalog No.	Description	List Price	Promotional Price
BK513870	DU 640 Life Science Package Includes: DU 640 UV/Vis Spectrophotometer with Monitor, Nucleic Acid Analysis Software, Protein Software, Performance Validation Software, Single Cell Holder, Single Cell Holder for 50 µL Microcell, and 50 µL Microcell (Qty. 2)	\$15,973	\$11,790
BK513871	DU 640 Concentration Package Includes: DU 640 UV/Vis Spectrophotometer with Monitor, Single Component Analysis Software, Performance Validation Software, Single Cell Holder, 4.2 mL UV Silica Cuvette, HP Deskjet Color Printer and Cable	\$15,446	\$11,390
BK513872	DU 640 Kinetics Package Includes: DU 640 UV/Vis Spectrophotometer with Monitor, Enzyme Mechanism Software, Nucleic Acid Analysis Software, Protein Software, Performance Validation Software, Auto 6 Cell Holder with Water-Regulated Temperature Control, Transport, Accessory Option Board, and Virtual Disk Expansion	\$19,158	\$12,990
BK517910	DU WinConnection Suite	\$1,100	FREE

To receive your **DU WinConnection Suite**, simply complete this coupon and return with proof of purchase (Invoice or P.O.) to:
Beckman Coulter Inc. • 4300 N. Harbor Blvd. • Fullerton, CA 92834 • Attn: VWR Marketing (E-23-E) or Fax to 1-714-773-6690

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