

DVW-10 Variable Wavelength Detector

Variable Wavelength Detectors at a Fixed Wavelength Price!!



D-STAR INSTRUMENTS presents the forerunner of its new line of high performance, variable wavelength, UV-VIS detectors for liquid chromatography. These units provide a very price competitive alternative when compared to all the other detectors in today's market.

The DVW Series offers the best price/performance ratio in the market. And in today's economy, isn't that what purchasing a detector is all about: performance that meets your needs at a price that meets your budget.

Why buy performance specifications you will never use at prices you really can't afford?

Important DVW-10 Features

- Complete UV-VIS operation from 195nm to 800nm.
- Double beam optics (Reference and Sample Paths).
- All wettable components are constructed of PEEK, Teflon, Tefzel, and quartz, making the detector totally compatible with biochemical systems; stainless steel is an option with no difference in price.
- Flowcells are also available for prep and microbore in PEEK or Stainless Steel construction.
- Eight absorbance ranges via scrolling up and down controls.
- Sensitivity levels available for over 95% of all applications.
- Digital read-out of absorbance and wavelength.
- Analog outputs for absorbance and wavelength available at rear of instrument.
- Absorbance and wavelength remote control available via rear connector contact closures.
- Scrolling selection of wavelength.
- An analytical flowcell is standard and included in the instrument price. Stainless Steel option is also available.

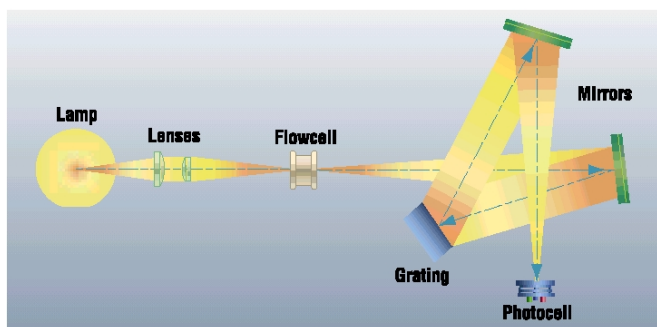


Figure 3. Schematic of Variable Wavelength Detector Optical System

The **DVW-10** can replace your current UV-VIS detector at a much lower cost than your original purchase price. If your needs call for a quality variable wavelength detector designed to offer an alternative to your aging detector, without unnecessary bells and whistles, then the **DVW-10** is your obvious choice.

A unique optical bench design is the heart of the **DVW-10 Detector**. This design provides a base for D-Star's future instrument development program. In addition, it offers the user an instrument that is simple to operate and easy to service. As a result, cost-savings are achieved, which are passed on to you at attractive competitive prices.



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DVW-10 Detector Specifications

Wavelengths: 195 to 800 nm

Lamps: Standard - Deuterium (D2) (195-360 nm)
Accessory - Tungsten (W) (360-800 nm)

Flowcells:

Analytical: 7mm pathlength, 10ul volume, 200 psi; wetted materials:

PEEK, quartz or sapphire, Tefzel, Teflon; 1/16" O.D. tubing.

Preparative: 2.0 mm pathlength, 4 ul volume, 100 psi; wetted materials:

PEEK, quartz or sapphire, Tefzel, Teflon, 1/8" O.D. tubing.

Linearity: Better than 2%

Wavelength Accuracy: 2 nm

Wavelength Reproducibility: 1 nm

Spectral Resolution: 5 nm

Stability (Drift): Less than 2.5×10^{-4} AU/Hr (at 254 nm and constant temperature)

Noise: Less than $\pm 2.5 \times 10^{-5}$ AU (5×10^{-5} AU peak to peak) at 254nm and constant temperature

Recorder Output (A): 10mV

Integrator Output: 1.0 V/AU to 2V (Equivalent to 2.0 AU)

Display: Absorbance: 4.5 digits to 1.999 AU

Wavelength: 3 digits for operating range 195-800 nm

Absorbance Ranges: 0.005, 0.01, 0.02, 0.05, 0.10, 0.20, 0.50, 1.0 AU

Front Panel Controls: Wavelength (l) selection, Range selection, Autozero,
Event Mark

Rear Panel Controls: Subminiature D-type, 15 position female connector for detector recorder/ integrator output, and remote control (Wavelength [l] Up/Down, Event Mark, Autozero, Lamp On/Off, Sample/Reference Energy)

Power: 110/115, 220/230V factory preset

Dimensions: 7.1" H x 10.2" W x 18.0" L

Shipping Weight: 27 lbs



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