

Affordable Lab Technology



The T9DCS/T10DCS Series Spectrophotometer incorporates dual monochromator technology making it well suited to even the most demanding of applications in all areas of UV-Visible Spectroscopy including:

- Pharmaceutical
- Metrological Verification
- Food Safety

- Material Science
- Biotechnology
- Research



Wireless instrument control and data acquisition can be achieved from a Tablet PC using Wi-Fi technology allowing the analyst to move freely around the laboratory whilst also keeping track of sample measurements.



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The optical design of both the T9DCS and T10DCS offer A whole host of specialised accessories are available to extremely low stray light characteristics (≤0.00004%T Nal,220 nm) which allows for an extensive photometric range (-8.0 – 8.0Abs). Measurements at deep ultra-violet wavelengths can also be achieved with use of Nitrogen purged optics.

The instrument can be optically configured to suit the needs of the sample by means of a continually adjustable slit for precise control of spectral resolution and beam size adjustment by means of an attenuating wheel.

Precise wavelength accuracy is ensured by the integrated Mercury Emissions Lamp used for automatic correction of spectral deviation.

suit the specific requirement of the sample, these include:

- Both 60mm and 150mm Integrating Sphere for Diffuse reflectance measurements.
- Absolute, and Specula reflectance measurements accessories.
- Polarizing Optics.
- Thermostatic Cell Holders for temperature control.
- Various long and short pathlength cell holders.
- Automated cell changers for both sample and reference beams.
- Tablet dissolution accessory for pharmaceutical quality control.

Specifications

Further product information available soon.

| Specifications | T9DCS | T10DCS |
|-----------------------------|---|---|
| Optical System | Dual Monochromator Double Beam | Dual Monochromator Double Beam |
| Light Source | D2 Lamp – UV Region W Lamp – Visible Region Hg Lamp – Wavelength Correction | D2 Lamp – UV Region W Lamp – Visible Region Hg Lamp – Wavelength Correction |
| Wavelength Range | 185∼900nm | 185~900nm |
| Wavelength Accuracy | ±0.2nm | ±0.2nm |
| Wavelength Reproducibility | ≤0.1nm (D2 lamp) | ≤0.1nm (D2 lamp) |
| Spectral Bandwidth | 0.1 – 5nm Continually Adjustable | 0.1 – 5nm Continually Adjustable |
| Stray Light | ≤0.0001%T (Nal, 220 nm) ≤0.0001%T (NaNO₂,360 nm) | ≤0.00004%T (Nal,220 nm) ≤0.00002%T (NaNO₂, 360 nm) |
| Photometric Range | -6.0Abs~6.0Abs | -8.0Abs~8.0Abs |
| Photometric Accuracy | ±0.004A @2.0A ±0.003A @1.0A ±0.002A @0.5A ±0.3% | ±0.004A @2.0A ±0.003A @1.0A ±0.002A @0.5A ±0.3% |
| Photometric Reproducibility | ≤0.002A @2.0A ≤0.0008A @1.0A ≤0.0004A @0.5A ≤0.1% | ≤0.002A @2.0A ≤0.0008A @1.0A ≤0.0004A @0.5A ≤0.1% |
| Baseline Flatness | ±0.0008Abs | ±0.0005Abs |
| Noise | 0% Noise: ≤0.01%; 100% T Noise: ≤0.1%; | 0% Noise: ≤0.01%; 100% T Noise: ≤0.1%; |
| Communication port | RS232C,USB, Wifi | RS232C, USB, Wifi |

We reserve the right to modify, revise/upgrade, suspend or discontinue any Product in whole or in part, either temporarily or permanently, with or without notice.