

Split Beam UV/VIS Spectrophotometer - Type T70



The **T70** Split-Beam UV/VIS Spectrophotometer offers a wavelength range of 190-1100nm and is delivered with a built-in 8-cell changer as standard. It can therefore be used for both manual operation as well as for fully automated Dissolution Testing applications.

Features...

- Excellent reproducibility and drift stability
- Integrated 8 way UV cell changer for 10x10 mm flow-cells
- High performance characteristics
- Flexibility
- User friendly operation
- Excellent Performance and Price ratio

Reproducible measurements...

UV-Visible Spectroscopy is a universally accepted, well documented technology with many applications. The technique is extensively used for the analysis of foods, drugs, agricultural products and is widely used in the medical care, public health, environmental protection, life sciences industries and many other organic and biochemical applications.

PHARMA TEST AG
Siemensstrasse 5
D-63512 Hainburg (GER)



+49 6182 9532-600
+49 6182 9532-650
email@pharma-test.de
www.pharma-test.com



Split Beam UV/VIS Spectrophotometer - Type T70

The T70 series of UV-Visible Spectrophotometer offer excellent performance, high quality and are competitively priced. The T70 range of UV-Visible Spectrophotometers are well able to meet the stringent requirements required by analytical chemists.

The T70 UV-Visible series is innovative in terms of instrument application, mechanical and optical design, electronic control and software, whilst retaining features that are well established and accepted throughout the industry.

The T70 series of UV-Visible Spectrophotometers are able to carry out the following types of analyses: photometric measurement, spectral scans, kinetic measurements, quantitative determination and DNA/Protein analysis. When interfaced to a PC the user friendly control software offers many other applications such as access to a data base, three-dimensional spectral analysis, GLP Laboratory protocol, fast analysis of pesticide residues and many other established applications that are required for environmental analysis. Some of the highlights are listed below:

Log Record...

- Automatically records each operator's usage
- Reliable database format to save the data log
- Administrator controlled access to log records and other useful tasks

Multi-User Management...

- Allows the administrator to create users and groups with different privileges. Access is controlled by user ID and password

Binary File Save...

- Binary format to save measurement data. Binary format improves data security, and saves disk space

Quality Control...

- Monitor data according to the user's setup. The system will take corrective measures if the data is out of range

Software Conforming to GLP...

- Multi-user management
- Log record
- Quality control
- Printout record

Data Printout...

- Share data with other software
- The results can be exported to Microsoft Word, Microsoft Excel, Text

Printout Records...

- Printout measurement results
- Personal settings for the report format
- Print preview

PHARMA TEST AG
Siemensstrasse 5
D-63512 Hainburg (GER)



+49 6182 9532-600
+49 6182 9532-650
email@pharma-test.de
www.pharma-test.com



UV Cell Changer...

The T70 has a built in 8 way UV cell changer as standard. The large cell changer compartment is fully enclosed but still offers easy access. Thanks to the cell holder design, all of the installed UV cells are always reproducibly positioned in the light path.

For Dissolution Testing, the 8 way UV cell changer allows the connections of a single Dissolution Bath. The maximum path length of the UV cells is 10mm while the smallest is 0.1mm.

Accessories...

The unit is designed to operate with a standard 10 x 10mm flow through cell with a centre axis of 15 mm. There is open access to the cell changer and therefore the attachment of flow cell tubing (either PTFE or FEP) is a straightforward task. All tubing lines are clearly routed through a convenient manifold and the operator is easily able to check out the entire tubing installation at a glance.

Options...

- UVWin Software 5 (part no. 350-01200)

The **UVWin** Software offers a user friendly dialogue with 4 commonly desired functions: photometric, kinetic, and quantitative measurements as well as 3-D presentation by combining multiple spectra. The spectra can be fully and easily manipulated. UVWin allows Peak picking and graphic print-outs.

UVWin software also includes DNA/Protein analysis: Measurement of absorbance ratios at 260nm and 230nm, at 260nm and 280nm, and at custom defined wavelengths. Background correction can be applied using absorbance values at 320nm (Optional). The user can also make absorbance ratio calculations at user selected wavelengths. Concentration calculations can be performed using arbitrary factors when selecting custom defined wavelengths.

Technical Data

Optical System

Light Source	Tungsten Halogen lamp
Wavelength Range	190 - 1100 nm
Spectral Bandwidth	Variable Slit 0.5 - 1.0 - 2.0 - 5.0 nm
Wavelength Accuracy	0.3 nm (automatic wavelength correction)
Wavelength Reproducibility	± 0.2nm
Noise (at 500nm - 0Abs)	± 0.001Abs (2nm band width, 2hrs.)
Baseline Drift (at 500nm, 0Abs)	0.001Abs/hr, 2nm band width warm-up time
Stray light:	< 0.12% T (220nm NaI, 340nm NaNo ₂)
Photometric Mode:	Transmission, Absorption, Energy
Communication Port:	RS232 PC Port

Split Beam UV/VIS Spectrophotometer - Type T70

Weights and Dimensions

Net weight:	25 kg
Gross weight:	36 kg
Packing:	70 x 60 x 50 cm

IQ, OQ, PQ Requirements and Documentation

As with all other Pharma Test products each instrument is delivered with full IQ, OQ paperwork, as well as an instrument log book, free of charge.

Our technically qualified staff are able to supply local PQ support and perform system suitability tests for Dissolution Systems using USP Calibrator Tablets.



ADS-DT70 fully automated Tablet Dissolution System which includes a PTA Dissolution Bath, a Pump and for example the new Split-Beam Spectrophotometer with 8-cell changer

We reserve the right to make technical changes without any prior notice

PHARMA TEST AG
Siemensstrasse 5
D-63512 Hainburg (GER)



+49 6182 9532-600
+49 6182 9532-650
email@pharma-test.de
www.pharma-test.com

