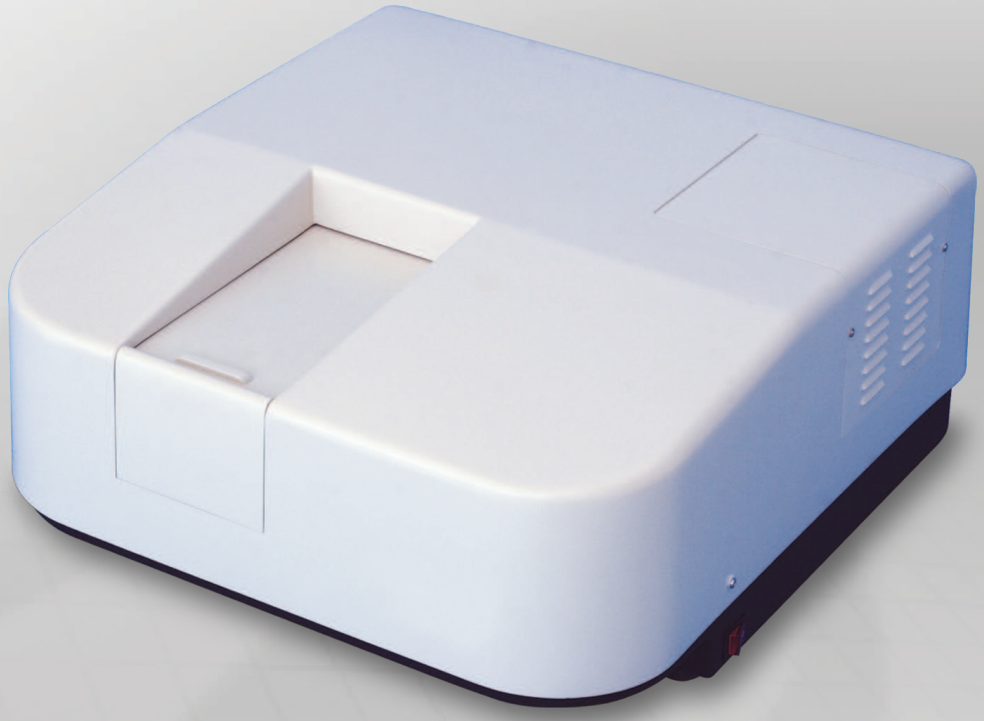
pg instruments

T90

UV/VIS Spectrophotometer



Features

Excellent Performance
A high-performance double beam spectrophotometer with a variable spectral bandwidth (0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm). The Czerny-Turner mounting with a holographic grating keeps stray to a minimum and offers excellent optical resolution. The use of photomultipliers as detectors offer exceptional sensitivity.

Very Stable Baseline
The true double-beam optical array coupled with an efficient and well proven electronic control system ensures high stability and low background noise.

High Resolution
The double beam optical design coupled with a high specification holographic grating gives excellent wavelength separation and allows the users to examine wavelength that are very close, whilst providing excellent signal to noise ratio.

Accurate Wavelength
The automatic wavelength control system and the automatic light sensors ensure wavelength accuracy and high performance of the instrument.

Easy Accessories Replacement
The modular structure of the sample compartment enables the easy use of wide range of optical accessories and accurate analysis of various sample types.

User-friendly Service Ability
The user friendly design of the light source chamber for the deuterium lamp and tungsten halogen lamp allows easy light source replacement and simplified routine maintenance.

Versatile Application Software
The UVWIN user friendly operating software operating on a Windows platform offers many operational and data processing capabilities, hus presenting the user with a very versatile simple to use spectrophotometer system.

The Key Components
All the components used in the T90 are selected for their reliability and continued high performance.

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Specifications

Optical system	Double beam optical system
Detector	PMT
Spectral bandwidth	0.1nm, 0.2nm, 0.5nm, 1.0nm, 2.0nm, 5.0nm
Wavelength range	190-900nm
Wavelength accuracy	±0.3nm (Automatic Wavelength Correction)
Wavelength repeatability	0.1nm
Stray light	<0.01%T (220nm,NaI), ≥2.0Abs (KCl,200nm)
Photometric range	(-4.0 4.0) Abs
Photometric accuracy	±0.002A (0-0.5A) ±0.004A (0.5-1A) 0.3%T (0-100%T)
Photometric repeatability	0.001A (0-0.5A) 0.002A (0.5-1A) 0.15%T (0-100%T)
Noise	±0.0004Abs
Drift	0.0004Abs/h (500nm, after preheating)
Baseline flatness	±0.001Abs
Photometric Mode	Transmittance, Aborbance, Energy

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