Ultraviolet and visible range spectrophotometers “UV-2005” and “UV-3100”

AUTOMATIC WALVELENGTH POSITIONING AND BLANK SETTING



“UV-2005” Part no. 4120020



“UV-3100” Part no 4120021

APPLICATIONS

Suitable for pharmaceutical and biochemical laboratories, kinetics, quantitative analysis, wavelength scanning, multiple components and DNA/protein analysis.

COMMON FEATURES

Spectrophotometers UV-2005 and UV-3100 have been developed for accurate tests; Its stray light is only of 0.05% T. They are flexible, easy-to-use and maximize value. Value is provided from every day perfomance. The independent local software provides the following functions: Basic Mode, Quantitative Test, Kinetics and System Utilities.
Data is stored in the memory in case of power cut.
The Special application software provides a complete control of the spectrophotometer from a PC, through the built-in USB port.
Wavelength scanning models can be upgraded when connected to the PC via the special software based in Windows®.
Automatic wavelength settings.
Halogen and deuterium lamps can be switch on/off individually to extend lamp lifetime.
Its pre-aligned design makes it possible to change lamps for the user himself.
Large sample compartment for 5-100mm path length cuvettes, with optional holders.
A wide range of optional accessories can also be selected.

UV-2005 MODEL

Large LCD screen (128x64bits).
It can display a total of 200 groups of data (5 groups per screen).
It can display standard curve and kinetics curve graphic.
The system can also save the test results.
A total of 200 data groups and 200 standard curves can be saved in the RAM memory.

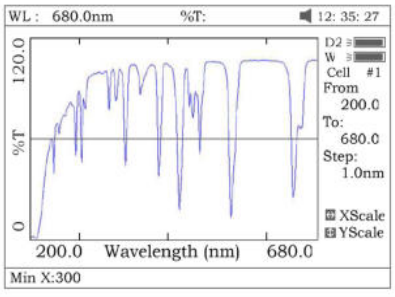
UV-3100 MODEL

Absorbance, transmittance and concentration measurements.
It establishes or uses stored calibration equations to measure solutions of unknown concentration.
Spectrum scan of sample at any selected wavelength range with choice of scanning speed and wavelength interval.
Measurement of absorbance changing versus time with reaction rate calculation function.
Measurement at multiple wavelengths to analyse and determine the composition of the mixtures.
Calculation of concentration and DNA purity.
Note: ratio at other wavelengths can be measured.

ACCESSORIES

(see page 242).

MODELS	UV-2005	UV-3100
Part No.	4120020	4120021
Wavelength range	190-1100 nm	
Spectral bandwidth	2 nm	
Optical system	Single beam, diffraction grating 1200 lines/nm	
Wavelength accuracy	±0,5 nm	
Wavelength repeatability	0,3 nm	
Photometric accuracy	±0,3% T	
Photometric repeatability	±0,2% T	
Photometric range	-0,3-3 A, 0-200% T. 0-9999 Concentration	
Stray light	0,05% T @220 nm, 340 nm	
Stability	± 0,002 A/h @ 500 nm	
LCD Display	Graphic(128x64)	Graphic(320x240)
Scanning velocity	-	High,Med, Low.Max 3000 nm/min.
Uniformity	-	± 0,002 A (200-1000nm)
Sample compartment	10mm path length standard cuvette (100mm optional)	
Light source	Halogen and deuterium lamps (pre-aligned)	
Output	USB, parallel port (printer)	
Power requirements	220 V / 50Hz AC or 110 V / 60 Hz AC	
External dimensions(HxWxD)	180 x 470 x 370 mm	160 x 480 x 360 mm
Weight (Kg)	14	16



Graphic display visualized detail of holmium crystal scanning, from a UV3100 spectrophotometer.

SPARE PARTS	UV-2005	UV-3100
Halogen lamp (visible)	4312007	
Deuterium lamp (UV)	4312006	