



Ultraviolet and visible range spectrophotometers "UV-2005" and "UV-3100"

AUTOMATIC WAVELENGTH 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 performance. 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.

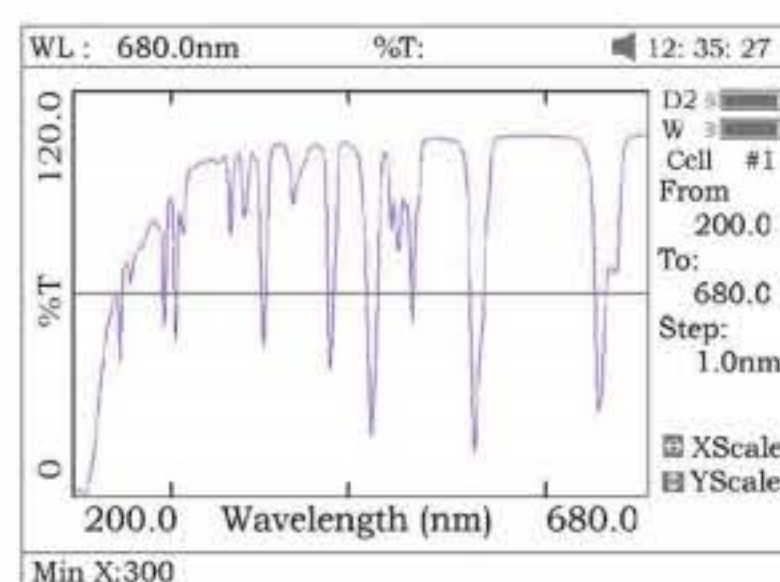
Calculation of concentration and DNA purity.

Note: ratio at other wavelengths can be measured.

ACCESSORIES

(see page 241).

| 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 | |

ACCESSORIES

Thermostatted flow Peltier cuvette holder (only compatible with UV-2005 and UV-3100 models)

Temperature range: from 15 °C. to 40 °C. in steps of 0.1 °C (ambient temperature ± 22°C.)

Precision: ± 0,2 °C.

Sample suction volume: 1, 2, 3, 4, 5, 7.5, 10, 12.5, y 15 ml/min.

LCD Display: 128x64 pixels.

Model

| Part No. | Height / Width / Depth (controller) cm | Height / Width / Depth (cuvette holder) cm | Power W | Weight Kg |
|----------|--|--|---------|-----------|
| 4120018 | 11,5 27 17 | 10 12 7 | 30 | 3,5 |

Cuvette holder

For long cuvettes, pathlength between 1 and 50 nm. Part No. 4120030

For path length 100 mm. cuvettes. Part No. 4120031

Test tubes holder

For tubes from 10 to 20 mm. Ø Part No. 4120032

Ink printer (not thermal). Paper 2 1/4" (56 mm) wide roll. Includes power transformer and interface cables. (5V-3A)

Model

| Part No. | Height / Width / Depth cm | Weight Kg |
|----------|---------------------------|-----------|
| 4120117 | 4 16 10 | 1 |

