



## V-5000 VISIBLE SPECTROPHOTOMETER

V-5000 is a single beam visible spectrophotometer with manual wavelength setting. It is a basic model and ideal choice for routine analysis and general experiments. This specially designed single beam spectrophotometer is a low cost spectrophotometer which offers high performance, easy operation and wide application.

### [Features]

#### \* Microprocessor controlled

With microprocessor controlled, V-5000 can realize auto Zero and auto 100%T adjustment with one button. V-5000 has a LCD display instead of LED display for direct readout of Transmittance, Absorbance Concentration.

#### \* Grating Monochromator

V-5000 uses 1200 line grating which ensures high resolution, low stray light and high parameters accuracy.

#### \* Data output

V-5000 has a USB port which can be connected to PC to edit data through software. Data can also be printed through a parallel port when connected to a micro printer.

#### \* Compact design, easy to carry

The compact design of V-5000 saves bench space while all components function remain performed like 120mm wide sample compartment and long optical path monochromator.

#### \* Four Display Mode

V-5000 can display absorbance, transmittance, concentration and coefficient directly by different mode switching.

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## Technical Specification

| Model                     | V-5000                            | Photometric Mode   | T,A,C,F                           |
|---------------------------|-----------------------------------|--------------------|-----------------------------------|
| Optical System            | Single Beam, Grating 1200lines/mm | Stray Light        | $\leq 0.2\%T@360nm$               |
| Wavelength Range          | 325-1000nm                        | Stability          | $\pm 0.002A/h@500nm$              |
| Spectral Bandwidth        | 4nm                               | Display            | LCD                               |
| Wavelength Accuracy       | $\pm 2nm$                         | Detector           | Silicon Photodiode                |
| Wavelength Repeatability  | $\leq 0.5nm$                      | Output             | USB Port & Parallel Port(Printer) |
| Wavelength Setting        | Manual                            | Light Source       | Tungsten Halogen Lamp             |
| Photometric Accuracy      | $\pm 0.5\%T$                      | Power Requirements | AC 85-250V                        |
| Photometric Repeatability | $\leq 0.2\%T$                     | Dimension          | 420*280*180mm                     |
| Photometric Range         | -0.3-3A, 0-200%T, 0-9999C         | Weight             | 8kg                               |

## Standard Accessories

| Item | Description       | Quantity | Unit |
|------|-------------------|----------|------|
| 1    | Spectrophotometer | 1        | set  |
| 2    | 1cm Glass cuvette | 4        | pcs  |
| 3    | Power cord        | 1        | pcs  |
| 4    | User's Manual     | 1        | pcs  |
| 5    | Black block       | 1        | pcs  |
| 6    | Dust Cover        | 1        | pcs  |

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