

## CIRRUS 80 SPECTROPHOTOMETER

### Main Specifications



Automatic Scanning UV-VIS 190 to 1100nm, stand alone  
Spectral bandwidth: 2 nm  
Wavelength increments in 0,1nm  
Detector: silicon photodiode  
Graphic display: 128 x 64 pixels, with backlight  
Monochromator: Wadsworth; diffraction grating: 1200 lines/mm  
5 Optical filters with automatic change  
Stray light: 0,1%T at 220 and 340 nm  
Wavelength accuracy: +/- 1 nm from 190 to 400 nm and +/- 2 nm from 401 to 1100 nm  
Scanning speed: 325 nm/min (interval: 5 nm)

Photometric range: Absorbance: -0,3 to 3,0 Abs

Transmittance: 0 to 200% T

Photometric accuracy: 0,005 Abs from 0,0 to 0,3 Abs

Photometric noise: 0,002 Abs at 0,0 Abs

Drift: 0,003 Abs/hour

Keyboard: 30 alphanumeric keys and more 4 function keys

Lamp: tungsten-halogen 2000 hours and Deuterium 1000 hours.

Interface: Serial RS 232C

Power requirements: 90 ~ 240 V (+/- 10%) manual selection of voltage; 50/60 Hz; 150 VA

Dimensions: 35 W x 44 D x 20 H (cm)

Net Weight: 9 Kg

Total Weight: 13 Kg

Manual and display: Portuguese, Spanish and English

Software: FEMWL 80-R1

- Nitrate by UV/ Abs difference with 2 wavelength (up to 12 standards)
- Multi wavelength: Abs ratio; Abs difference, 2 or 3 wavelengths
- Measurement of bacteria cells at 600 nm
- Graph of Absorbance x Wavelength
- Graph of Linear and cubic regression
- KINETIC (timescan - graph of Abs x time; dA/min ; lecture of Standards Absorbance in 2 times :start and final)
- Can store up to 208 methods (8 defined methods and new 200 methods can be created)
- Can store the last 500 results
- Upload results via serial interface to PC (Microsoft-HyperTerminal - Windows XP)

### Standard Accessories

1 Dust Cover

1 Main power cable

1 CD - Installation and Operation Manual

*\* Not attached graphic printer*

## Optional accessories or spare parts

Description	Code
Thermal graphic printer	10.254
W lamp in holder pre calibrated	50.001
Deuterium lamp 1.000 hours	10.008
Quartz, square cell, 10 mm path length, volume 3,5 mL	10.034
Quartz, square cell, 10 mm path length, volume 700 $\mu$ L	10.134
Continuous flow system with square flow cell 10mm and peristaltic pump	FC
Serial converter cable / USB	00.971



10.034



10.134



Cell and pump for continuous flow

Subject to change without notice  
Illustrations do not represent the actual size