

Mega-800

Affordable and Accurate Double Beam UV-Vis Spectrophotometer

Mega-800 is an affordable and accurate double beam spectrophotometer available with variable spectral bandwidth (0.5, 1, 2, 5nm), which is innovative in terms of instrument application, mechanical and optical design, electronic control and software whilst retaining features that are well established and accepted through the industry.

The Mega-800 UV-Visible Spectrophotometer is able to carry out photometric measurement, spectrum scans, quantitative determination and DNA/Protein analysis. When interfaced to a PC using the LabPro®Scan software, many more features are available including 3D spectrum, kinetic measurements, method and data storage, exportation of data in multiple formats.

FEATURES & FUNCTIONS



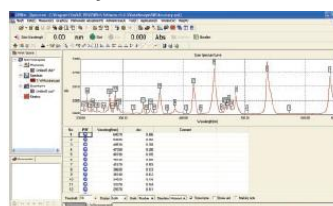
- High performance variable (0.5, 1, 2, 5nm) spectral bandwidth.
- Wavelength accuracy : $\pm 0.3\text{nm}$
- Supplied with a automatic 8 cell changer and pre-aligned Tungsten and Deuterium lamps
- Holographic blazed grating 1200 lines /mm
- High degree of automation requiring minimal key depressions to start analysis
- A number of optional accessories available which increase the flexibility of the instrument
- Analysis for photometric measurement, spectrum scans, quantitative determination and DNA/Protein analysis
- LabPro®Scan software gives additional functionality including 3D spectrum
- Simple mechanical structure and modular electronics make routine maintenance very easy

LabPro®Scan Software

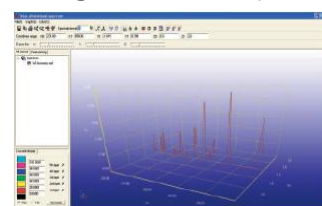
LabPro®Scan is a powerful, intuitive software product used for connectivity to Scinco instruments range of bench top UV-Vis Spectrophotometers.

LabPro®Scan software offers complete instrument control along with data acquisition and a whole host of mathematical tools for interpretation of measurement results. The LabPro®Scan software is separated into four key workspaces.

- Spectral Analysis
- Quantitative Analysis
- Kinetic Analysis
- Photometric Analysis



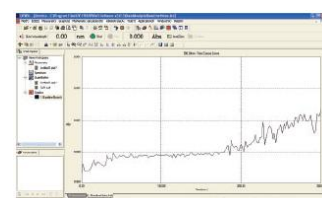
Spectrum Workspace



3D Spectrum View



Quantification Workspace



Kinetics Workspace

Specifications



Mega-800	
Optical System	Double Beam
Light Source	Deuterium and Tungsten Lamp
Detector	Silicon Photodiodes
Wavelength Range	190 ~ 1100 nm
Wavelength Accuracy	±0.3 nm
Wavelength Reproducibility	≤0.2 nm
Spectral Bandwidth	0.5, 1, 2, 5 nm (Selectable)
Photometric Mode	Transmittance, Absorbance, Energy Concentration
Photometric Range	-0.3 ~ +3.0 Abs
Photometric Accuracy	0.3 %T (0 - 100%T)
Photometric Reproducibility	0.15 %T (0 - 100%T)
Photometric Noise	0.001 A (500 nm, 30 min warm-up)
Baseline Flatness	0.0015 A (190 ~ 1100 nm, bandwidth 2 nm)
Baseline Stability	0.0008 A/h (500 nm), 2 hour warm-up
Stray Light	< 0.2 %T at 220 nm NaI and 340 nm NaNO ₂
Connectivity	RS-232 / USB
Dimensions	520 (W) x 420(D) x 230(H) mm
Weight	25 Kg

Standard configuration

- 1 X System
- 1 X Certificate of conformity
- 1 X Standard Single Cell Holder
- 1 pair of quartz cell
- 1 X Black Block for dark current
- 1 X Fuse
- 1 X Power cord
- 1 X Instruction manual
- 1 X Packing List
- 1 X LabPro®Scan PC Software

Accessories for Mega-800



5-position Cell changer

- Cell Pathlength : 5-50 mm (adjustable)
- Number of Cells : 5 Cells



Constant temperature Holder

- Cell Pathlength : 10 mm
- Number of Cells : 2 Cells (1 for sample & 1 for reference)
- Requires appropriate Water Circulator



Sipper System

- Pump Speed : 0.1-250 RPM
- Speed Resolution : 0.1 RPM (less than 30 RPM Speed and 1 RPM above 30 RPM Speed)



Peltier

- Temperature Range : 5-75 °C
- Use in conjunction with Constant temperature holder

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scinco

Website: www.scinco.com
E-mail: scinco@scinco.com

SCINCO

627, Bongeunsa-ro, Gangnam-gu, Seoul 06083 Korea
Tel: +82-2-2143-8200 Fax: +82-2-2143-8355

R&D Center

746, Daedeok-daero, Yuseong-gu, Daejeon 34055 Korea
Tel: +82-42-610-7400 Fax: +82-42-610-7500