

product code:

80-2118-00

Novaspec III Visible Spectrophotometer

For easy use in educational research laboratories

The Novaspec™ III Visible Spectrophotometer has been designed to meet the needs of both students and technical staff in education. The instrument is small and light in weight with a large display that shows large characters, ensuring all results are easy to read (Fig 1). In addition, the user manual includes simple experiments for the determination of λ max, extinction coefficient and natural bandwidth as well as the construction of a standard curve and the measurement of stray light.

The Novaspec III measures absorbance, percentage transmission and concentration as well as being able to output absorbance—time plots directly to chart recorder. The instrument is delivered with Grafico, a PC utility software package, and the requisite serial lead, providing the student with the means to capture, print and interpret a wavelength scan from the instrument on a PC; the data for the scan or other results can be easily exported from Grafico to Microsoft™ Excel (Fig 2). Grafico also includes an educational tutorial on UV/visible spectrophotometry.

The Novaspec III accepts standard 10-mm pathlength glass or plastic cuvettes; a test tube adapter set is available. The cell holder can be removed for cleaning. The instrument is delivered with a starter pack of disposable plastic cuvettes.

Features

- Measures absorbance, percentage transmission, concentration and rate
- Bundled with Grafico PC utility software
- Includes educational experiments and UV/Visible tutorial
- Produces analogue output for connection to chart recorder

Components

Grafico PC utility software

Educational tutorial on UV/visible spectrophotometry

Starter pack of disposable plastic cuvettes



Fig 1. Novaspec III Visible Spectrophotometer.

Technical specifications

Light source: Tungsten

Optical system: Single beam, monochromator

Wavelength range, nm: 330–830 nm

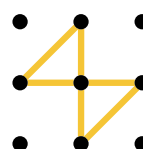
Absorbance range, A: -0.3–2.500

Bandwidth: 7 nm

Stray light: < 1%T at 340 nm

Stored methods: Not applicable

Wavelength accuracy: ± 2 nm



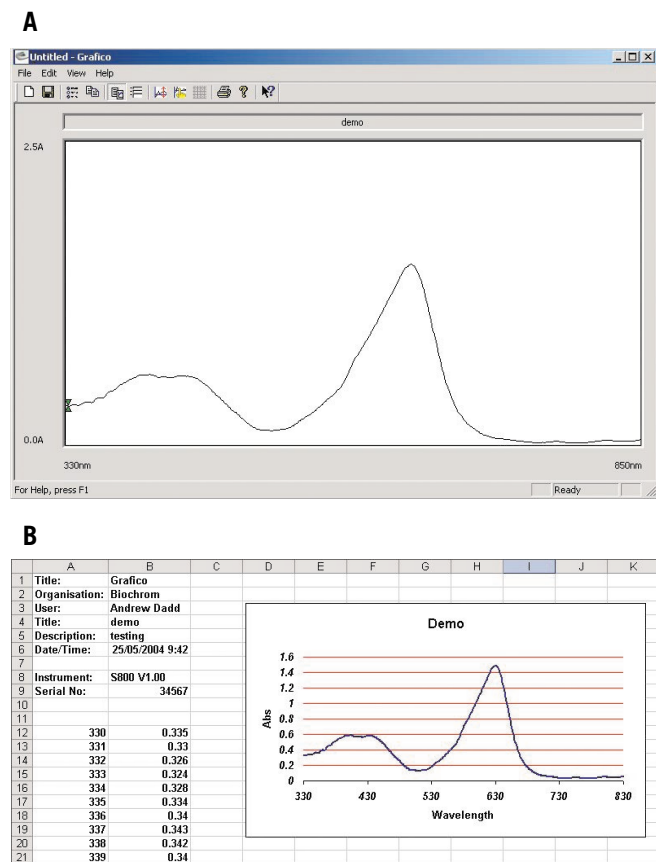


Fig 2. Typical scan output viewed using Grafico PC utility software (A), and the same scan exported to Microsoft Excel (B).

Ordering information*

Description	Code number
Novaspec III Visible Spectrophotometer	80-2118-00

Accessories

Spare test tube adapters (10, 12, 16 mm)	80-2117-47
Spare lamp	80-2115-33
Spare serial cable	80-3001-00
Chart recorder interface cable	80-3003-55
S1000P printer including cable	80-3002-53
Speccas calibration filter set	Enquire

Cells

Acrylic, pack of 100 (volume 2.5 ml)	80-2004-53
Polystyrene, pack of 100 (volume 1.5 ml)	80-2084-11
Glass, standard rectangular with lid (volume 2.5 ml)	80-2003-87
Glass, semi-micro with lid (volume 750 µl)	80-2004-15

*All products are CE marked and comply with relevant legislation, including EMC and low voltage directives.

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