From: jeremy.denton@jencons.co.uk
To: Bargery, Arwen D.C.
Cc: Jens.Meisenbach@de.vwr.com
Subject: Hitachi U-1800 specifications
Date: 10 February 2016 12:26:06

Dear Arwen,

You contacted Hitachi requesting specifications for the Hitachi U-1800. I hope that this helps. This is taken from the Jencons catalogue of the time...

U-1800 UV/Visible Spectrophotometer

The U-1800 is packaged in a unit covering an area no bigger than an A3 piece of paper, yet produces analytical results of outstanding quality. With an easy-to-use keyboard and clear, backlit LCD display, it is ideally suited to a host of routine analysis and teaching applications.

The ratio beam design brings exceptional long-term measurement stability, making the U-1800 a natural choice for time dependent measurements of absorption such as enzyme kinetics. The U-1800 is packed with a variety of useful facilities such as a GLP routine for QC applications and a validation function. A scanning mode allows multiple wavelength measurements to be made. DNA/RNA measurements are also made easy since the instrument can automatically make measurements at two different wavelengths and calculate their ratio.

A wide range of high quality accessories is available for the U-1800, including a 4 cell changer for rapid sample selection, and an RS-232 interface and optional PC Solutions™ software, compatible with Windows® 95, 98, XP or NT V4.0. This easy-to-use package provides photometry, wavelength and time scan functions, allowing enzyme kinetic data to be acquired. Data can also be readily exported to a spreadsheet such as Excel™ for further processing.

- Compact size with built-in LCD screen
- Scanning mode included as standard
- Full UV capabilities down to 190nm
- Ratio-beam for excellent stability
- Built-in DNA/RNA measurement program
- Built-in GLP program for QC applications
- Built-in validation function

Specification

Monochromator	Seya/Namioka mount, ratio-beam system
Bandwidth, nm	4
Wavelength range, nm	190-1100
Wavelength accuracy, nm	±0.55
Wavelength precision, nm	±0.3
Photometric range	-0.500 to 3.000A, 0 to 300%T, 0.000 to 9999C
Photometric accuracy	±0.002A at 0 to 0.5A, ±0.004A at 0.5 to 1.0A, ±0.3%T
Photometric noise	0.0005A at 500nm
Baseline stability	0.001A/hr after warm-up
Display	Large backlit LCD
Stray light	<0.05% at 220nm and 340nm
Interface/Output	Bi-directional RS-232C
Power	100/115/220/230/240V, 50/60Hz
Dimensions (wxdxh), mm	346x190x110
Weight, kg	18.0

Best Regards
Jeremy

Jeremy Denton
FMS, Capital Equipment UK
VWR International Ltd. | Tel: +44 (0) 7803 850 502 | Email: jeremy.denton@uk.vwr.com | Web: www.vwr.com

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Registered in England No:1932827
Registered office: Hunter Boulevard, Magna Park, Lutterworth, Leicestershire, LE17 4XN, England

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