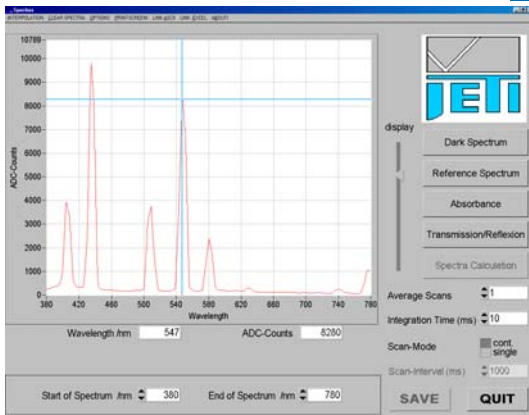




Spectrometer Specbos 1001 / 1001 UV

The **Specbos 1001** is a fiber-coupled VIS spectrometer for lab, as well as OEM applications. It has a USB 2.0 COM port interface and can be easily installed. The instrument needs no extra power supply. The **Specbos 1001 UV** is identical in construction and covers the range of 250 ... 500 nm.



Emission spectrum of a Mercury lamp

The **Specbos 1001/ 1001 UV** is operated with JETI's intuitive measuring software. (For a demo version see www.jeti.com.) It is suited for spectra acquisition and transmission / reflection, absorbance and first or second derivative calculations. Single and continuous measurement modes and averaging are possible. The obtained data can be exported to Excel™ spreadsheets and to ASCII files.

Furthermore it is possible to incorporate the instrument into individual applications using the virtual COM port directly utilizing the following methods:

- DLL
- Virtual Instruments for LabView
- Serial commands

Advantages:

- Easy installation and operation
- USB powered
- Start of measurement with external trigger
- DLL and Virtual Instruments (LabView) interfaces included

Input fibers (standard length 1 m) and collimating / focusing optics are available. Send your specifications to us. The **Specbos 1001 / 1001 UV** can be supplied with an SMA or ST fiberoptic connector.

Specifications

Applications	Relative emission measurement, e.g. of LED's, CRT's, lamps, projectors etc.	
Optical parameters		
Spectral range	380 nm ... 780 nm (Specbos 1001), 250 nm ... 500 nm (Specbos 1001 UV)	
Optical input	100 µm fiber, NA 0.22	
Connector	SMA (optional ST)	
Optical resolution	9 nm (optional 5 nm) FWHM	
Calculated wavelength step	1 nm	
Digital electronic resolution	15-bit ADC	
Measuring ranges and accuracies		
Wavelength accuracy	± 0.7 nm (ASTM E275, filter BG 20, 2 mm, λ = 528.7 nm / 684.3 nm)	
Wavelength reproducibility	± 0.2 nm (ASTM E275, filter BG 20, 2 mm, λ = 528.7 nm / 684.3 nm)	
Stray light	< 10 ⁻³ (ASTM E387, GG495, 4 mm, λ = 420 nm / 630 nm)	
Sensitivity	typ. 1.3·10 ¹⁴ counts/Ws (550 nm)	
Integration time	10 msec ... 60 sec	
Other technical data		
Spectrometer	Imaging grating (flat field)	
Light receiving element	Photodiode array 1024 or 2048 pixel	
Power supply	USB powered	
Interfaces	USB 2.0 full speed	
Dimensions	140 mm x 58 mm x 34 mm	
Weight	250 g	
Operating conditions	Temperature	10 ... 40 °C
	Humidity	< 85 % relative humidity at 35 °C
Accessories (included)	JETI Specbos PC software for Windows 2000/XP DLL, LabView Virtual Instruments USB cable and trigger connector Operating instructions Transport box	

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