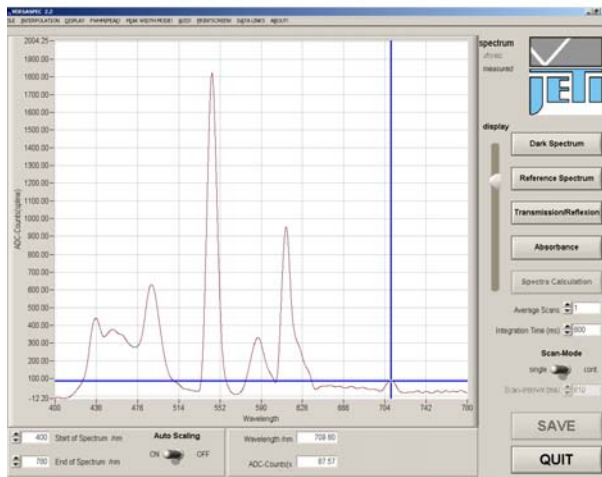




Spectrometer specbos 1001/ 1001 UV

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



Emission spectrum of a flat panel display

specbos 1001/ 1001 UV can be operated with an intuitive measuring software VersaSpec (for a demo version see www.jeti.com). It is suited for spectra acquisition and transmission/ reflection, absorbance and first/ second derivation calculations. Single and continuous measurement modes and averaging are possible. The obtained data can be exported to Excel™ spread sheets and to Grams (SPC) or CSV files.

Furthermore it is possible to implement the instrument into individual applications using the virtual COM port directly by the following ways:

- DLL
- Virtual Instruments for LabView
- Serial commands

Advantages:

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

Input fibers (standard length 1 m) and collimating/ focusing optics are available. Send your specification to JETI.
specbos 1001/ 1001 UV can be supplied with SMA or ST fiberop-tic 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 bandwidth	9 nm (optional 5 nm) FWHM
Wavelengths resolution	1 nm
Digital electronic resolution	16 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 = 528.7nm/ 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 ... 60000 ms
Other technical data	
Spectrometer	Imaging grating (flat field)
Light receiving element	Photodiode array 128 pixel (1024 pixel at increased resolution)
Power supply	USB powered
Interface	USB 2.0 fullspeed
Dimensions	145 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)	PC software VersaSpec for Windows 2000/XP DLL, LabView VI's USB cable and trigger connector Operation instructions Transport box

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