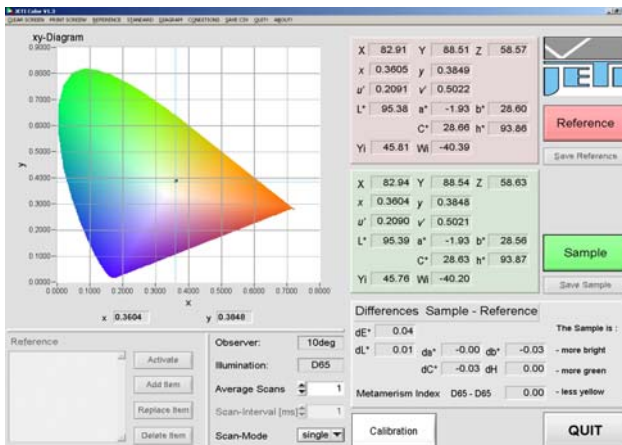




## Spectrocolorimeter specbos 4001

**specbos 4001** is a very compact spectro colorimeter. It includes a small light source, a 45°/ 0° fiber-optic measuring head and a miniaturized spectrograph. **specbos 4001** not only allows to distinguish between different basic colors, but it can measure tiny color differences of samples. The instrument has a USB (virtual COM port) interface that can be easily installed. It needs no extra power supply.



**specbos 4001** can be operated with an intuitive measuring software JETI color (for a demo version see [www.jeti.com](http://www.jeti.com)). It is suited for spectra acquisition and transmission/ reflexion, absorbance and first/ second derivation calculations. Single and continuous measurement modes and averaging are possible. The obtained data can be exported to CSV and to ASCII files.

### Advantages:

- Compact instrument
- Easy installation and operation
- USB powered
- Start of measurement with external trigger

An optional holder for precise adjustment of the instrument can be delivered. It allows to align a target mark before the instrument will be pushed on the sample.

## Specifications

Application	Surface color measurement
<b>Optical parameters</b>	
Spectral range	380 nm ... 780 nm or 400 nm ... 700 nm
Optical bandwidth	9 nm (optional 5 nm) FWHM
Wavelengths resolution	1 nm
Digital electronic resolution	16 bit ADC
<b>Measuring ranges and accuracies</b>	
Measuring geometry	45°/ 0° (Illumination 45°, Measurement 0°)
Measuring probe	Diameter 18 mm
Measuring diameter	4 mm
Measuring time	typ. 0.8 s
Photometric range	0 ... 130 %
Repeatability	typ. 0.1 dE* to calib. Standard
<b>Other technical data</b>	
Light source	Krypton lamp with filter
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	175 mm x 58 mm x 34 mm
Weight	350 g
Operating conditions	Temperature 10 ... 40 °C Humidity < 85 % relative humidity at 35 °C
Accessories (included)	PC software JETI Color for Windows 2000/XP DLL, LabView VI's USB cable and trigger connector Operating instructions Calibration standard Calibration certificate Transport box
Calibration	BAM traceable (Bundesanstalt für Materialprüfung)
Recommended recalibration interval	1 year

### Software: JETI Color

- Working under MS Windows 2000/XP
- Illumination D65, A, C
- Observer 10° and 2°
- Color systems XYZ, L\*a\*b\*(CIE), Luv, L\*C\*h\*
- Color difference dE\* (dl\*, da\*, db\*, dC\*, dh\*) and metameric calculation
- Management of customer specific color references
- Averaging scans
- Continuous measurement
- Data export in CSV files
- Different color diagrams with zooming functions

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