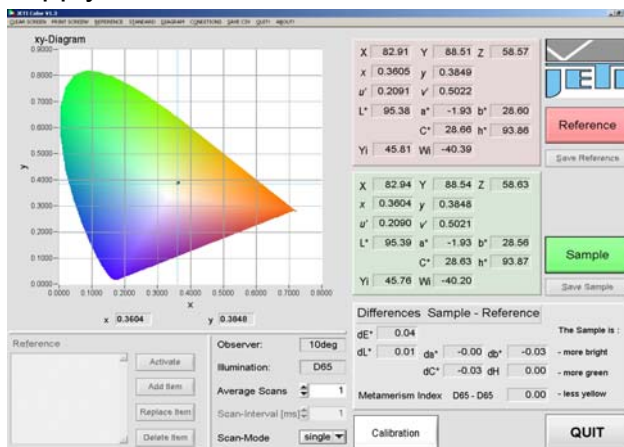




Spectro Colorimeter Specbos 4001

The **Specbos 4001** is a very compact spectro colorimeter. It includes a small VIS light source, a 45° / 0° measuring geometry head and a miniature spectrometer unit. The **Specbos 4001** not only allows the user to distinguish between different colors, but it can measure tiny color differences among samples. Having a USB (virtual COM port) interface makes it easy to install and it needs no additional power supply.



The **Specbos 4001** is operated using JETI's intuitive measuring software. (For a demo version, see www.jeti.com). It is suited for spectra acquisition, transmission / reflection, absorbance and first / second derivative 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 bus powered
- Start of measurement with external trigger

An optional holder for precise adjustment of the instrument can be provided. It allows the operator to align a target mark before the instrument is pushed against the sample.

Specifications

Application	Surface color measurement
Optical parameters	
Spectral range	380 nm ... 780 nm or 400 nm ... 700 nm
Optical resolution	9 nm FWHM
Calculated step width	1 nm
Digital electronic resolution	15-bit ADC
Measuring ranges and accuracies	
Measuring geometry	45° / 0° (Illumination 45°, Measurement 0°)
Measuring probe	Diameter 18 mm
Measuring diameter	4 mm
Measuring time	typ. 0.8 sec
Photometric range	0 ... 130 %
Repeatability	typ. 0.1 dE* to calib. Standard
Other technical data	
Light source	Krypton lamp (life time > 10,000 hours)
Spectrometer	Imaging grating (flat field)
Light receiving element	Photodiode array 1024 or 2048 pixel
Power supply	USB bus powered
Interface	USB 2.0 full speed
Dimensions	140 mm x 58 mm x 34 mm
Weight	200 g
Operating conditions	Temperature 10 ... 40 °C Humidity < 85 % relative humidity at 35 °C
Accessories (included)	JETI Color software for Windows 2000/XP DLL, LabView Virtual Instruments 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* (dI*, 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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