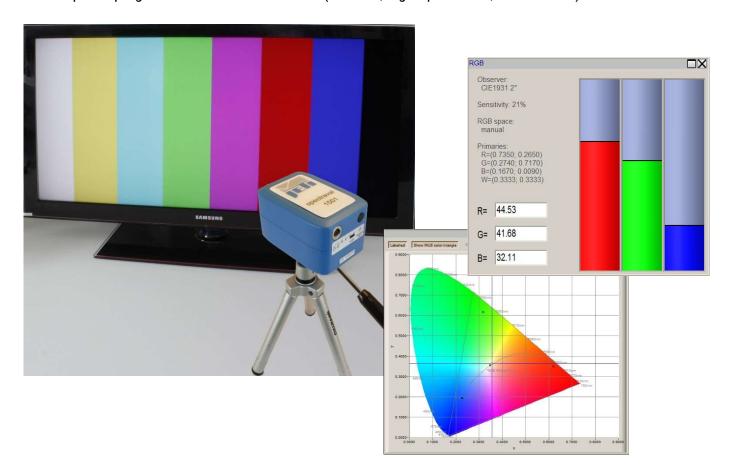




spectraval 1501 VIS Spectroradiometer

spectraval 1501 is a compact spectroradiometer for the visible spectral range. It can be used for spectral Radiance measurements with a viewing angle of 1.8°. The actual measuring area is marked by a red circle.

spectraval 1501 comes with the radiometric software JETI LiVal (demo version see: www.jeti.com), but can be used with special programs for monitor calibration (CalMAN, LightSpace CMS, ChromaPure).

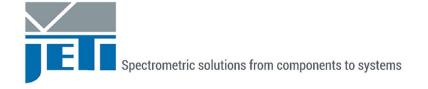


Advantages:

- Compact solution
- Fast measurement
- Precise results due to high quality spectrograph and NIST traceable calibration
- Comfortable handling due to Bluetooth interface
- Measurement of source repetition rate

Examples for applications:

- · Calibration of broadcast monitors
- Color adjustment of digital projectors
- spectraval 150HiRes for RGB Laser projectors
- Color characterization of LED displays
- Color measurement of video walls





Specifications

Optical parameters

Spectral range 380 ... 780 nm

380 ... 1000 nm (version: spectraval 1501NIR)

Optical bandwidth 4.5 nm

2 nm (version: spectraval 1501HiRes)¹

Wavelength resolution 1 nm
Digital electronic resolution 16 bit ADC

Viewing angle 1.8°

Measuring distance/ diameter $20 \text{ cm} - \emptyset 6 \text{ mm}$; $100 \text{ cm} - \emptyset 31 \text{ mm}$

Measuring values Spectral Radiance, Luminance, total Radiance

x,y, u',v', CCT, color purity, CRI, RGB and others

With **optional** diffusor Spectral Irradiance/ Integral Irradiance/ Illuminance

Measuring ranges and accuracies

Luminance measuring range 0.2 ... 180 000 cd/m² (Illuminant A)

0.2 ... 140 000 cd/m² (typical warm white LED)

Luminance accuracy ± 4.4 % (Illuminant A @ 100 cd/m², k=2)

Luminance repeatability ± 1 % (Illuminant A)

Chromaticity accuracy $\pm 0.002 \text{ x, y (Illuminant A, k=2)}$ Color repeatability $\pm 0.0005 \text{ x, y (Illuminant A)}$

CCT repeatability ± 20 K (Illuminant A)

Max. Max. wavelength error ± 0.2 nm (HgAr line source)

Polarization error f8 < 2 %

Other technical data

Dispersive element Imaging grating (flat field)

Light receiving element CCD line array 2048 pixels (binned)

Power supply Battery and USB powered

Interfaces USB 2.0 fullspeed

Bluetooth, alternatively LAN

Dimensions 140 mm x 80 mm x 70 mm

Weight 400 g

Operating conditions Temperature 10 ... 40 °C

Humidity < 85 % relative humidity at 35 °C

Accessories (included) PC software JETI LiVal for Windows 8.1/10, operating

instructions and software development kit on BT stick USB cable, battery charger and trigger connector

Calibration certificate Tripod, carrying bag

Calibration NIST traceable

Recommended interval 1 year



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