

Spectrophotometer PCE-CSM 30



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**High quality processing table spectrometer / Touchscreen /
Simple user interface / Memory for up to 2000 measurements /
Evaluation via the PC with USB connection / Location function**

The table spectrophotometer, like any other spectrophotometer, is responsible for color measurement. This very accurate table spectrophotometer is intended for laboratory use to perform measurements on paper, textiles or, for example, reference samples. Measurements can be performed quickly and easily with this table spectrometer thanks to the easy-to-use touch screen interface. Due to the built-in clamping device in the table spectrometer, the test specimens are optimally attached to the measuring device.

Slipping is also prevented by the clamping device. In the table spectrometer a camera is installed, which helps the operator to optimally position the test object. Due to the long life of the bulb and a stable construction, it offers the highest degree of user-friendliness. The built-in memory allows up to 2000 measurements to be stored. The illuminant used on the table spectrometer is even designed to carry out three million measurements.

In particular the high-quality and robust processing of the table spectrometer is evident at first glance. While working with the table spectrometer the high measuring accuracy of the device is important. A table spectrometer is often used in production and quality assurance or in laboratory analysis. Here it is important that a constant quality is always produced and that individual parts not only look similar but look the same. For this, a high measurement quality is of enormous importance. The simple design makes cleaning fast and easy. Thanks to the USB connection with the PC, you can use the table spectrometer to analyse measurements directly on the PC using the supplied software.

- ▶ Touchscreen
- ▶ USB cable for data transfer
- ▶ Temperature display
- ▶ Device software included
- ▶ High quality
- ▶ High measuring accuracy and stability
- ▶ Single and average measurements
- ▶ Non-slip

Specifications

| | |
|-------------------------------|---|
| Recording geometry | Reflection: 8° / d, (SCLand SCE, including UV / exclusive UV) Permeability: 0° / d, (SCLand SCE, including UV / exclusive UV) |
| Size of integrationsphere | 154 mm / 6" |
| Spectrophotometricoperation | Concave grid |
| Sensor | 256 Pixel CMOS imagesensor |
| Wavelength interval | 10 nm |
| Wavelength spacing | 10 nm |
| Measured reflectionrange | 0 ... 200% |
| Colorimetric index | WI (ASTM E313, CIE/ISO,AATCC,Hunter) YI (ASTM D1925, ASTM313) TI (ASTM E313,CIE/ISO) MI (Metamerism Index) Stain fastness, colourfastness, colour intensity, opacity Gardner Index, Pt-CoIndex, 555Index |
| Specular component | SCI, SCE |
| Colour ranges | CIE Lab, XYZ, Yxy, LCh,CIE LUV,Hunter LAB Munsell, s-RGB, HunterLab,DIN,βxy ΔE*ab, ΔE*uv,ΔE*94,ΔE*cmc(2:1), ΔE*cmc(1:1) ΔE*00v, ΔE(Hunter),DINΔE99 |
| Formulas for colourinequality | D65, A, C, UV, D50, D55,D75, F1,F2, F3 F4, F5, F6, F7, F8, F9,F10, F11,F12 |
| Light source | 2° / 10° |
| Viewing angle | Spectrogram values,Samples of colour values Values / graph of colourdifferences Pass / Fail result, Colourbalance |
| Data display | Φ 25.4 mm / SCI, ΔE*ab0.15 Single measurement,average value measurement |
| Device error | Finding the measuringpoints by camera |
| Measurement mode | |
| Location method | |

More information

More product info



Similar products



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| Power supply | Power supply input: 100... 240V50 ... 60 Hz 1.6 A Power supply output: 24 V3 ADC |
| Dimensions | 370 x 300 x 200 mm / 14.5x 11.8 x7.8 in (W x L x H) |
| Lamp lifespan | 5 years / more than 3million measurements |
| Display | 7" TFT Display,capacitiveTouchscreen |
| Menu languages | English, Chinese |
| Operating conditions | 0 ... 40°C / 32 ...104°F 0 ... 85% relativehumidity (non-condensing) |
| Storage conditions | -20 ... 50°C / -4 ...122°F 0 ... 85% relativehumidity (non-condensing) |
| Standards | CIE No.15, GB/T 3978, GB2893, GB/T18833 ISO7724/1, ASTM E1164,DIN5033 part7 |
| Data storage | 2000 standards, 20000samples (One standard contains SCIand SCE) |
| Data Interface | USB |
| Weight | 9.6 kg / 21 lbs 2 oz |
| Repeatability | |
| Spectralreflection: Φ 25.4 mm / SCI, standarddeviation at 0.05% (400 nm ... 700 nm: within 0.04%) | |
| Chromaticity forspectral reflection | Φ 25.4 mm / SCI, standarddeviation ΔE^*_{ab} 0.02 |
| Spectral transmittance: Φ 25.4 mm / SCI, standarddeviation at 0.05% (400 nm ... 700 nm: within 0.04%) | |
| Chromaticity forspectral transmittance: | Φ 25.4 mm / SCI, standarddeviation ΔE^*_{ab} 0.02 |
| Chromaticity accuracies refer to the whitecalibration standards for 30 measurements in a 5 secondinterval. | |
| Measuring aperture | |
| Reflective: | Φ 30 mm / Φ 25.4 mm, Φ 10 mm/ Φ 8 mm, Φ 6 mm / Φ 4 mm; |
| Permeable: | Φ 30 mm / Φ 25.4 mm |
| Wavelength range | 360-780 nm combined LEDlamp, 400 nm cut-off, UV lamp |

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