

Light Meter PCE-TT 100



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Transmittance meter for measuring transmission of visible light and UV on glasses

The light meter PCE-TT 100 is used to measure the transmission of visible light and UV light. For this purpose, the light meter uses a light source and a spectrophotometric sensor. Essentially, the light meter is used to measure the transmission of light through lenses, sunglasses and all other lenses. The light meter is used in glass production but also in opticians to test, for example, the quality of sunglass lenses.

The light meter has a USB interface to connect the PCE-TT 100 to a computer. In the supplied software, a reference measurement is first performed without the glass being placed on it with the light meter. After successful measurement, the user can now place the glass to be measured between the light source and the sensor. With a simple click, the test material is now measured by the light meter.

In the software of the light meter, the percentage deviations from the reference measured value are displayed directly. These include, shading, UV filtering, color of the glass and more. In addition to the numerical display of the measured values, the filtering of the light over the entire spectrum is graphically processed.

- ▶ Measurement of the transmission of light
- ▶ Spectral analysis
- ▶ Measurement of the glass color
- ▶ USB interface
- ▶ Windows software
- ▶ 300 ... 1100 nm wavelength in the measuring range
- ▶ Haze measurement according to ASTM D1003
- ▶ Full spectrum transmittance according to ASTM D1003
- ▶ Transmittance according to ASTM E275-93
- ▶ CIE 1931 and CIE 1976 chromaticity diagrams

Specifications

Measurable parameters	Specific wavelength
	Transmission Average transmittance of visible light
	Visible smoothing of light
	Visual color deviation
	Color (LAB)
	Color (ΔE)
	Yellowness index
	All wavelengths of the lights
Wavelength range	300 ... 1100 nm
	380 ... 780 nm
Resolution	0.8 ... 1.5 nm
Noise of the sensor	<0.1%
AD resolution	16 bits
Integration time	1 ms ... 24 s
Interface	USB
Power supply	Sensor technology: USB
	Light source: Power supply 5V / 3V
Dimensions	140 x 103 x 234 mm / 5.5 x 4.1 x 9.2 in
Weight	About 3.5 kg / 7.7 lbs
System requirements	Windows XP SP3, Vista, 7, 8, 8.1, 10
	2.4 GHz
	1 GB RAM
	500 MB hard disk space
	Min. 1024 x 768 Px display resolution

More information

Manual



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