

## **Colour spectrometer JCS 100**

### **JCS 100**

#### **Product Description**

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Our JCS 100 Colour spetrofotometer is a precise colour spectrometer for determining wavelengths and colour spectra.

The user can select the measuring standard for the object they are measuring beforehand (e.g. textiles, metallic products, plastic products, cosmetics, etc.). The result of the measuring process is that the device outputs several specific values and the colour difference in these values can be clearly identified and documented. These specific values do not show a specific colour code but still enable precise measurements which can be compared objectively. You can select the standard observation angle as 2 or 10 degrees, several light source modes, several colour spaces. Geometric optical D/8 structure, i.e. the angle at which the light is reflected from the sample is recorded is 8 degrees. This structure is suitable for highly diverse materials and surfaces.



Measurement process: the dual optical trail system simultaneously records the SCI and the SCE spectrum of a sample. This combination enables precise, comprehensive characterisation of the colour, both taking the gloss into account and not taking the gloss into account.

#### **Standards**

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- Spectral reflectance
- WI (ASTM E313, CIE/ISO, AATCC and Hunter)
- YI (ASTM 01925, ASTM 313)
- Colour spectrum index of Mt
- Touch colour fastness, colour authenticity
- Thickness
- Coverage rate
- 555 colour classification
- Munsell (C2)

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#### **Technical Specification**

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- With LED light source to support fluorescence measurements
- The integrated white panel for reference is protected against contamination and guarantees the measuring accuracy
- Portable design, robust construction Wobble-free, dustproof and shockproof Full spectrum with long service life and low power consumption
- Developed for quality control of colours, in the textile, printing, ceramic, food processing and cosmetics industries, for example
- Ideal for use in the laboratory and industry:
  - USB data interface, as standard
  - Rapid, accurate measurement of the SCI and SCE spectrum, simultaneously within a second
  - Colour display with simple touch operation
- Offers the most varied calibration algorithms
- Supports several national and international standards and parameters, including spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC and Hunter), YI (ASTM 01925, ASTM 313), colour spectrum index of Mt, touch colour fastness, colour authenticity, thickness, coverage rate, 555 colour classification as well as Munsell (C2)

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#### Main Technical Parameters

	JCS 100	JCS 200
Standards	Supports several national and international standards and parameters, including spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC and Hunter), YI (ASTM 01925, ASTM 313), colour spectrum index of Mt, touch colour fastness, colour authenticity, thickness, coverage rate, 555 colour classification as well as Munsell (C2)	
Measuring aperture	MAV: Ø 8 mm / Ø 10 mm SAV: Ø 4 mm / Ø 5 mm <b>LAV: 1 x 3 mm</b>	MAV: Ø 8 mm / Ø 10 mm, SAV: Ø 4 mm / Ø 5 mm
Observation angle	2°, 10°	
Standard deviation (within)	0,08	
Display accuracy	0,01	
Light source	LED, UV	
Net weight	0,27 kg	

#### Disclaimer

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