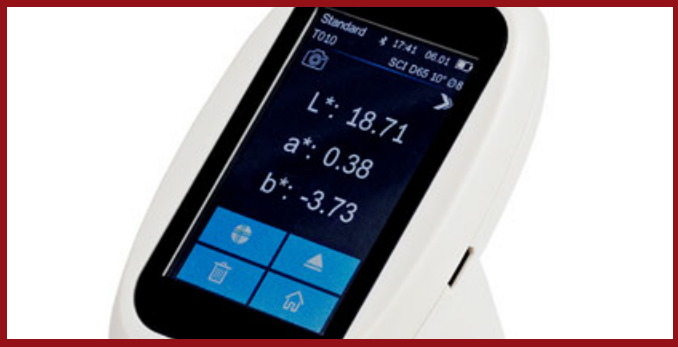


9

COLOUR MEASUREMENT

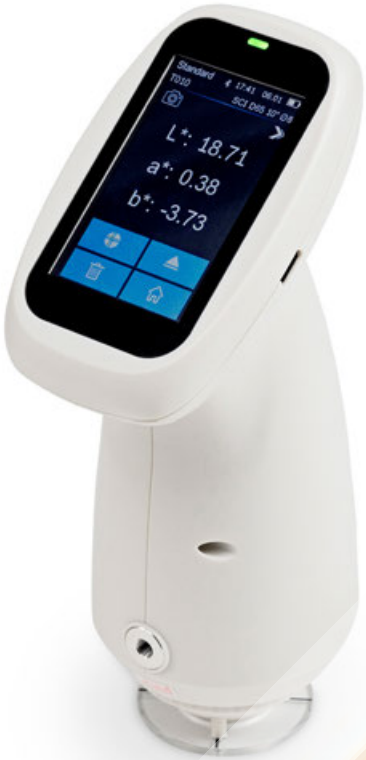
Everything is so bright and colourful here...
The colours all around us are of vital importance in describing our world. But because perception of colour is different from person to person and is influenced by factors such as age and gender, it is highly subjective. Therefore, in industrial colour schemes, sensors are used to produce a comparable, objective and repeatable measurement result.

To achieve this all factors which could influence the perceived colours are reduced to a minimum. These may be, for example, the lighting, background or surface.

By doing this it is possible to imitate human perception of colour, but at the same time obtain measurements in a technical way such that even the smallest differences or deviations in colour are detected. In many sectors, the colour of the product is an indicator of quality, particularly for products which are in circulation for a long period of time. It is very important in this case that the visual impression of the products remains constant at all times, so as to avoid consumer confusion.

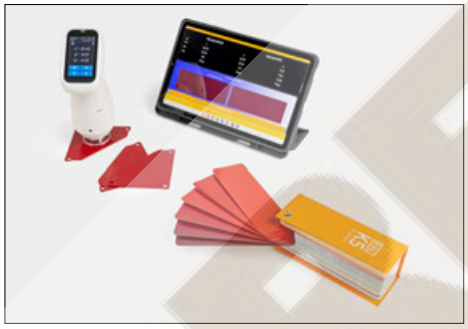
Quick-Finder

Measuring aperture	Model	Page
	SAUTER	
MAV: ⌀ 8 mm / ⌀ 10 mm, SAV: ⌀ 4 mm / ⌀ 5 mm	**JCS 200**	76
MAV: ⌀ 8 mm / ⌀ 10 mm, SAV: ⌀ 4 mm / ⌀ 5 mm, LAV: 1 x 3 mm	**JCS 100**	76



9

Versatile colour spectrometer for professional use



Determine wavelengths and colour spectra precisely, qualify and compare colours using current standards

Characterise colours comprehensively – taking the gloss into account or not

Developed for quality control of colours in the textile, printing and plastics industry and many other sectors

Discover more details and matching accessories online!

Features

- Precise colour spectrometer for determining wavelengths and colour spectra
- Identifies a range of chroma parameters
- 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
- 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
- 1 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)

Technical data

- Displayed accuracy: 0,01 of [Max]
- Standard deviation: 0,08
- Light source: LED, UV
- Overall dimensions W×D×H 188×94×68 mm
- Net weight approx. 0,30 kg

STANDARD

Model	Measuring aperture	Observation angle
SAUTER		
JCS 100	MAV: ⌀ 8 mm / ⌀ 10 mm, SAV: ⌀ 4 mm / ⌀ 5 mm, LAV: 1×3 mm	2° | 10°
JCS 200	MAV: ⌀ 8 mm / ⌀ 10 mm, SAV: ⌀ 4 mm / ⌀ 5 mm	2° | 10°