Technical Data Sheet

ColorLite
Innovative Farbmesstechnik
made in Germany

Parameter	ColorCube oph100 Specification
Application	Colour and transmittance measurement of ophthalmic lenses
Measurement principle	Spectral transmittance measurement
Measurement geometry	d/0° diffuse illumination, 0° viewing angle, in accordance with DIN 5033
Measuring area	10 mm
Spectral range	380–700 nm
Spectral resolution	Holographic grating spectrometer, < 10 nm optical resolution, 3.5 nm sampling interval
Light source	Long-life LED combination
LED lifetime	> 20 years
Repeatability	< 0.03 ΔE*ab (CIELAB)
Measurement time	approx. 0.5 seconds
Reference standard	Relevant requirements of ISO 12312-1 for signal light recognition and suitability for driving
Standard illuminants	D65, D55, D50, A, C, F11 (others available on request)
Standard observer	2° and 10°
Colour spaces	XYZ, CIE xyY, CIELAB, LCh, CIELUV, transmittance spectrum
Colour difference formulae	ΔE*ab, ΔE94, ΔL*, Δa*, Δb*, Δx, Δy
PASS/FAIL evaluation	Freely definable tolerances with visual indication
Calibration	Open beam path
Interface	USB 2.0
PC software	ColorDaTra Professional with database, analysis and reporting functions
Dimensions	230 × 230 × 285 mm
Weight	approx. 6.8 kg
Power supply	External power supply unit, 110–240 VAC

Your contact: Jörg Arnold & Nadine Gabriel

Telephone: +49(0)5552 999 58-0

E-Mail: Sales@ColorLite.de

Version 09/2026