

CM3010

SPECTROPHOTO METER

- ◆ Concave grating spectrophotometric
- ◆ 3.5-inch TFT color LCD
- ◆ D/8 geometrical optics, conforms with CIE No. 15, ISO7724/1, ASTM E1164, DIN5033
- ◆ Use long life and low power consumption combined LED light source
- ◆ Switchable 8mm/4mm aperture, support both SCI and SCE at the same time
- ◆ Large storage capacity, over 20,000 measurement data
- ◆ USB port and Bluetooth 4.0
- ◆ With software



SPECIFICATION

Optical geometry	reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)	
Integrating sphere size	Ø48mm	
Light source	combined LED light	
Spectrophotometric mode	concave grating	
Sensor	256 image element double array CMOS image sensor	
Wavelength range	400~700nm	
Wavelength interval	10nm	
Semiband width	10nm	
Measured reflectance range	0~200%	
Measuring aperture	dual aperture: MAV: Ø8mm; SAV: Ø4mm	
Specular component	SCI&SCE	
Color space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB	
Color difference formula	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00v , ΔE (Hunter)	
Other colorimetric index	WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), Metamerism index MI, Staining fastness, Color fastness, Color strength, Opacity	
Observer angle	2°/10°	
Illuminant	A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, TI83, TI84, U35	
Displayed data	spectrogram/values, samples chromaticity values, color difference values/graph, PASS/FAIL result, color offset	
Measuring time	2.6s	
Repeatability	Spectral reflectance	MAV/SCI, within 0.1% of standard deviation(400~700nm: 0.2%)
	Colorimetric values	MAV/SCI: $\Delta E^* \leq 0.04$
Inter-instrument error	MAV/SCI: $\Delta E^* \leq 0.2$	
Measurement mode	single measurement, average measurement	
Data port	USB, Bluetooth 4.0	
Data storage	standard 1000 pcs, sample 20000 pcs	
Illuminant life span	5 years, more than 3 million times measurements	
Battery	Li-ion battery, 5000 measurements within 8 hours	
Dimension	184×77×105mm	
Weight	600g	

INCLUDED ACCESSORIES

Main unit	1pc
White and black calibration cavity	1pc
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

Printer	CM3010-PT
Powder test box	CM3010-PB

