CM3010 SPECTROPHOTO METER

VIDEO | Data output | Charge

- 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
- Ø8mm 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 ligh
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		Ø8mm
Specular component		SCI&SCE
Color space		CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB
Color difference formula		ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*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, Colorstrength, 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: ΔE*≤0.04
Inter-instrument error		MAV/SCI: ΔE*≤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**