

DATA OUTPUT

CONCAVE GRATING SPECTROPHOTOMETRIC

Ø0.32/0.16" DUAL APERTURE

BLUETOOTH

PORTABLE SPECTROPHOTOMETER (ADVANCED TYPE) PART NO. 9710-30



software CD (included)



white and black calibration cavity (included)

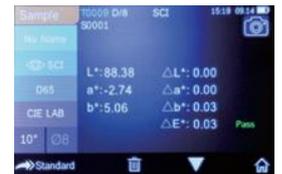


printer (optional)

- Concave grating spectrophotometric
- 3.5 inch TFT color LCD, capacitive touch screen, 256 image element double arrays CMOS image sensor
- D/8 geometrical optics, conforms with CIE No.15, ISO7724/1, ASTM E1164, DIN5033 Teil 7
- Use long life and low power consumption combined LED light source
- Camera locating function, switchable 0.32/0.16" aperture, support both SCI and SCE at the same time
- Large capacity storage space, over 20000 measurement data
- USB port and Bluetooth 4.0
- Two standard observer angles, a variety of illuminant, a variety of color indexes, conforms with a variety of standard colorimetric data,
- Measure sample spectra, accurate Lab data, can be used in color matching and accurate color transmission

SPECIFICATION

Optical geometry	reflect: di: 8°, de: 8° (diffused illumination, 8-degree viewing angle)	
Integrating sphere size	1.89" DIA	
Light source	combined LED light, UV light	
Spectrophotometric mode	concave grating	
Sensor	256 image element double array CMOS image sensor	
Wavelength range	15.75~27.56µm	
Wavelength interval	0.39µm	
Semiband width	0.39µm	
Measured reflectance range	0~200%	
Measuring aperture	dual aperture: MAV: 0.32" DIA; SAV: 0.16" DIA	
Specular component	SCI&SCE	
Color space	CIE LAB, XYZ, Yxy, LCh, CIE LUV, Hunter LAB	
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°	
Illumination	A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, T183, T184, 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 0.08% of standard deviation (15.75~27.56µm: 0.18%)
	colorimetric values	MAV/SCI: ΔE*≤0.03
Inter-instrument error	MAV/SCI: ΔE*≤0.15	
Measurement mode	single measurement, average measurement	
Data port	USB, Bluetooth 4.0	
Data storage	standard 1000 pcs, sample 28000 pcs	
Illuminant life span	5 years, more than 3 million times measurements	
Battery	Li-ion battery, 5000 measurements within 8 hours	
Dimension	7.24×3.03×4.13"	
Weight	1.32lb	



measurement



reflectivity

software

report

measurement data is exported to EXCEL

software (included), test can be controlled from the software, display test data, report

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

Printer	9710-PRINTER
Powder test box	9710-POWDERBOX
Universal test kit	9710-TESTKIT