

# COLORIMETER CODE 9710-30

CONCAVE GRATING  
COLORIMETER

Ø8/4mm DUAL APERTURE

BLUETOOTH

DATA  
OUTPUT

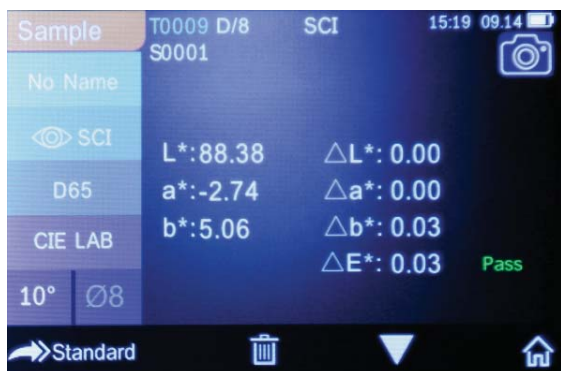


software CD (included)



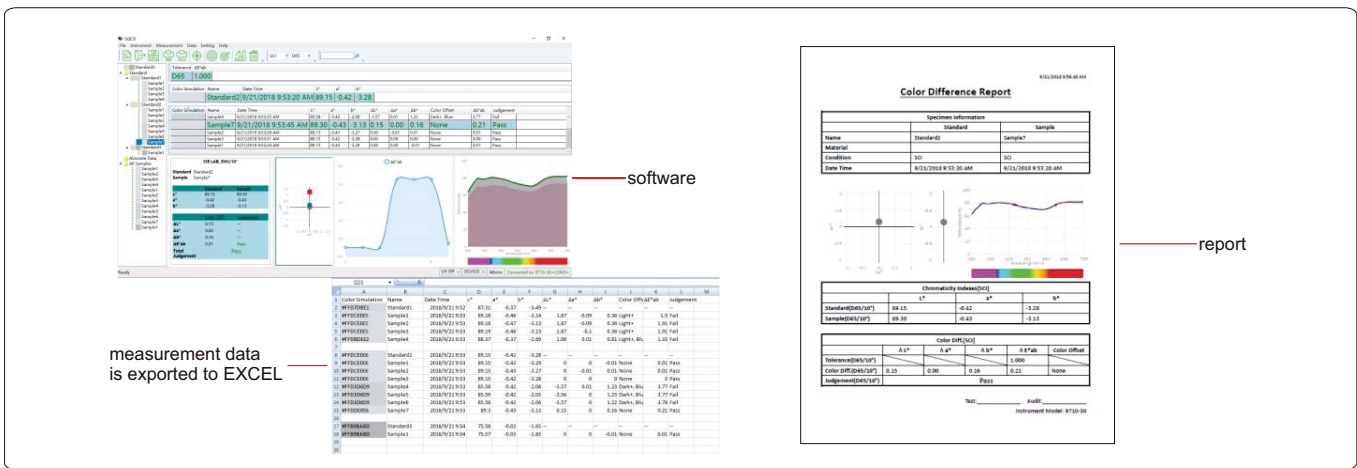
white and black calibration cavity (included)

- Concave grating colorimeter
- 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, GB/T 3978, GB2893, GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil
- Use long life and low power consumption combined LED light source
- Camera locating function, Switchable 8mm/4mm aperture, support both SCI and SCE at the same time
- Large capacity storage space, over 20,000 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



measurement





measurement data is exported to EXCEL

software

report

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

## SPECIFICATION

Optical geometry	reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)	
Integrating sphere size	Ø48mm	
Light source	combined LED light, UV 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	$\Delta E^*ab$ , $\Delta E^*uv$ , $\Delta E^*94$ , $\Delta E^*cmc(2:1)$ , $\Delta E^*cmc(1:1)$ , $\Delta E^*00uv$ , $\Delta E$ (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, 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(400~700nm: 0.18%)
	Colorimetric values	MAV/SCI: $\Delta E^* \leq 0.03$
Inter-instrument error	MAV/SCI: $\Delta E^* \leq 0.15$	
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	184×77×105mm	
Weight	600g	

## STANDARD DELIVERY

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

## OPTIONAL ACCESSORY

Printer	9710-PRINTER
Powder test box	9710-POWDER BOX
Universal test kit	9710-TEST KIT