

# SPECTROPHOTOMETER CODE 5701-D40

GRATING  
SPECTROPHOTOMETRIC

FOUR KINDS OF APERTURE

DATA  
OUTPUT

MATCHING COLOR  
CARD QUICKLY



white calibration cavity (included)

- Conforms with CIE No.15, ISO7724-1, ASTM E1164 and DIN5033 Teil7 standards
- Grating spectrophotometric, 3.5"IPS full color screen, dual optical path high precise CMOS array sensor
- Use long life and low power consumption combined LED light source, include UV and exclude UV measurement
- Camera locating function, switchable 11mm/6mm/3mm/1×3mm aperture
- Large capacity storage space, over 20,000 measurement data
- 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	D/8 (diffused illumination/8 ° direction reception) SCI+SCE (specular component included+specular component excluded)	
Integrating sphere size	Ø40mm	
Light source	LED (Full band balanced LED) +UV	
Spectrophotometric mode	Grating	
Sensor	Dual optical path high precise CMOS array sensor	
Wavelength range	400~700nm	
Wavelength interval	10nm	
Reflectance measurement range	0~200%	
Reflectance resolution	0.01%	
Display resolution	0.01	
Illumination area/Aperture	MAV:Ø11mm; SAV:Ø6mm, Ø3mm, MINI:1×3mm	
Color space	CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB	
Color difference formula	$\Delta E^*ab$ , $\Delta E^*cmc$ , $\Delta E^*94$ , $\Delta E^*00$	
Other colorimetric index	Whiteness (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), Yellowness (ASTM D1925, ASTM 313-00, ASTM E313-73), Blackness (My, dM), Color fastness, Tint (ASTM E313-73) Color density CMYK (A, T, E, M), Milm, Munsell, Opacity, Color strength	
Observer angle	2°/10°	
Illuminant	A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, T183, T184, Id50, Id65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2	
Measuring time	about 1.5s	
Repeatability	Spectral reflectance	within 0.08% of standard deviation
	Colorimetric values	$\Delta E^*ab \leq 0.025$ (after whiteboard correction, measuring the whiteboard 30 times at 5s interval)
Inter-instrument error	$\Delta E^*ab \leq 0.25$ (BCRA Series II, average value of 12 color plates)	
Data port	USB, Bluetooth	
Light source lifetime	10 years, more than 1 million times measurements	
Battery	3.7V/3000mAh, rechargeable 8,000 times continuous tests	
Dimension	95×129×231mm	
Weight	750g	



measurement



connect to computer

software

pure data report

graphic report

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

**STANDARD DELIVERY**

Main unit	1pc
White calibration cavity	1pc
Measuring aperture	3pcs
USB cable	1pc
USB disk	1pc
AC/DC adapter	1pc