HANDHELD SPECTROPHOTOMETERS (STANDARD TYPE)

FOUR KINDS OF APERTURE | GRATING SPECTROPHOTOMETRIC | DATA OUTPUT | MATCHING COLOR CARD QUICKLY

DEO

- 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 four apertures
- Large capacity storage space, over 20000 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

Code		5701-D40	5701-D45
Optical geometry		D/8 (diffused illumination/8° direction reception), SCI+SCE (specular component included+specular component excluded)	45/0 (45° illumination/vertical reception)
Integrating sphere size		Ø40mm	ring lighting strips
Light source		LED (full band balanced LED)+UV	LED (full band balanced LED)
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		ΔE*ab, ΔE*cmc, ΔE*94, ΔE*00, ΔE*ch, ΔE*uv, ΔEab	
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°	
Illumination		A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TI83, TI84, ID50, ID 65, 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	ΔE*ab≤0.025 (after whiteboard correction, measuring the whiteboard 30 times at 5s interval)	
Inter-instrument error		ΔE*ab≤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 8000 times continuous tests	
Dimension		95×129×231mm	
Weight		750g	

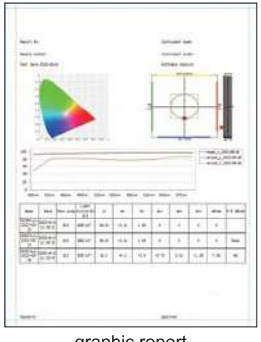
software (included), test can be controlled from the software, display test data, report



software



pure data report



graphic report

STANDARD DELIVERY

Main unit	1 pc
White calibration cavity	1 pc
Measuring aperture	9 pcs
USB cable	1 pc
USB disk	1 pc
AC/DC adapter	1 pc
Black light trap	1 pc



white calibration cavity (included)

connect to computer



computer is optional