

HANDHELD SPECTROPHOTOMETERS (STANDARD TYPE)

FOUR KINDS OF APERTURE

GRATING SPECTROPHOTOMETRIC



INSPECTION CERTIFICATE

DATA OUTPUT

MATCHING COLOR CARD QUICKLY

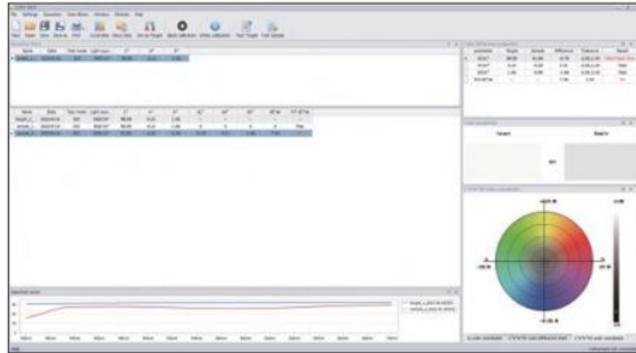
- Conforms with CIE No.15, ISO7724-1, ASTM E1164 and DIN5033 Teil7 standards
- Grating spectrophotometric, 3.5" IPS full color screen, dual optical path high precise CMOS array sensor
- Use long life and low power consumption combined LED light source, include UV and exclude UV measurement
- Camera locating 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, Tl83, Tl84, 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	$\Delta E^*ab \leq 0.025$ (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 8000 times continuous tests	
Dimension (L×W×H)	95×129×231mm	
Net weight	750g	

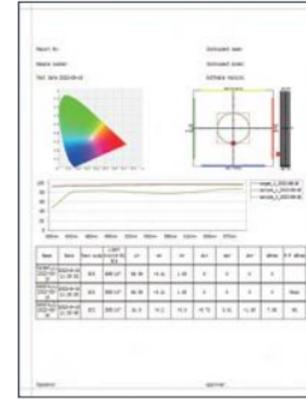
software (included), test can be controlled from the software, display test data, report



software



pure data report



graphic report

STANDARD DELIVERY

Main unit	1 pc
White calibration cavity	1 pc
Measuring aperture	8 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