

HANDHELD SPECTROPHOTOMETERS (ADVANCED TYPE)

MATCHING COLOR CARD QUICKLY

PLANE GRATING SPECTROPHOTOMETRIC

DATA OUTPUT

BUILT-IN BLUETOOTH

INSPECTION CERTIFICATE



white calibration cavity (included)



5710-HS05

- Plane grating spectrophotometric
- 3.5 inch TFT capacitive touch screen
- D/8 geometrical optics, conforms with CIE No.15, ISO7724/1, ASTM E1164, DIN5033 Teil 7
- Dual optical path system for more stable testing environment
- Includes both SCI and SCE measurement modes
- Use long life and low power consumption combined LED light source, include UV and exclude UV measurement
- Dual 40-array sensors, wider spectral response range
- Large capacity storage space, over 20000 measurement data



USB printer (optional)

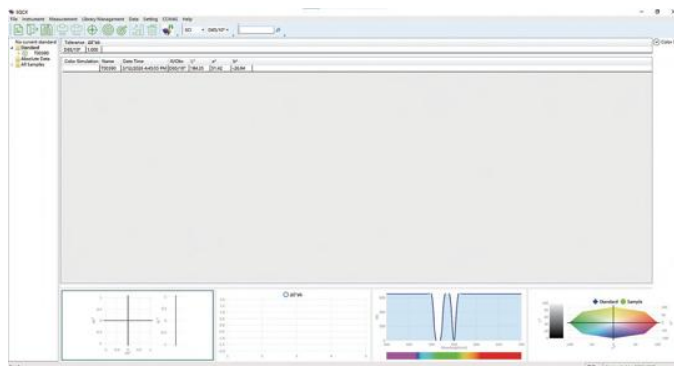


bluetooth printer (optional)

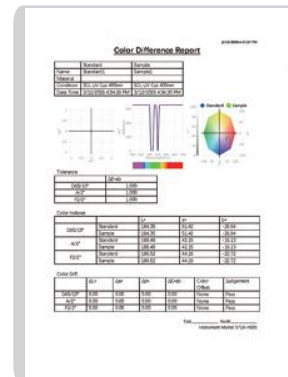


power test box (optional)

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



software interface



graphic report

SPECIFICATION

Part No.	5710-HS04	5710-HS05
Wavelength range	400nm~700nm	360nm~780nm
Measuring aperture	MAV: Ø11mm, Ø10mm ; SAV: Ø5mm, Ø3mm ; MINI: 1×3mm	MAV: Ø12mm, Ø11mm, Ø10mm ; SAV: Ø6mm, Ø5mm, Ø3mm ; MINI: 1×3mm
Light source	combined LED light, UV light	
Integrating sphere size	Ø40mm	
Spectrophotometric mode	plane grating spectrophotometric	
Sensor	silicon photodiode array (40 groups in double rows)	
Wavelength interval	10nm	
Measured reflectance range	0~200%	
Color space	CIE-Lab, CIE-LCh, CIE-XYZ, CIE-Yxy, CIE-LUV, HunterLab, RGB, Munsell, βxy, DIN Lab99	
Color difference formula	ΔE^*ab , ΔE^*94 , ΔE^*00 , ΔE^*cmc (2:1), ΔE^*cmc (1:1), ΔE^*uv , DIN ΔEuv , ΔE (hunter)	
Other colorimetric index	spectrum reflectance rate, WI (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, hunter, taubebergerstensby), YI (ASTM D1925, ASTM E313-00, ASTM E313-73), metamerism index MI, staining fastness, color fastness, strength (dye strength, tinting strength), opacity, 8-degree gloss, 555 Index, color density CMYK(A, T, E, M)	
Observer angle	2°/10°	
Illumination*	D65, A, C, D50, D75, F1, F2 (CWF), F3, F4, F5, F6, F7 (DLF), F8, F9, F10 (TPL5), F11 (TL84), F12 (TL83/U30)	
Displayed data	spectrogram/values, samples chromaticity values, color difference values/graph, PASS/FAIL result, color simulation, color offset	
Display accuracy	0.01	
Measurement time	about 1.5s	
Repeatability	chromaticity value	MAV/SCI, $\Delta E^*ab \leq 0.018$ (after whiteboard correction, measuring the whiteboard 30 times at 5s interval)
	spectral reflectance	MAV/SCI, standard deviation within 0.07% (400~700nm)
Inter instrument error	MAV/SCI, ΔE^*ab within 0.2 (BCRA series II, average value of 12 color plates)	MAV/SCI, ΔE^*ab within 0.18 (BCRA series II, average value of 12 color plates)
Measurement mode	single measurement, average measurement (2~99 times)	
Illuminant life span	more than 1.5 million measurements in 10 years	
Data port	USB, Bluetooth	
Data storage	standard 500 pcs, sample 20000 pcs (one piece of data can include SCI+SCE at the same time)	
Power supply	3.7V, 5000mAh	
Dimension (L×W×H)	4.49×2.76×8.19"	
Net weight	0.99lb	

*illuminant can be customized

STANDARD DELIVERY

Part No.	5710-HS04	5710-HS05
Measuring aperture	9 pcs	13 pcs
Main unit	1 pc	
white calibration cavity	1 pc	
Bluetooth receiver	1 pc	
Power adapter	1 pc	
Data cable	1 pc	
Software	1 set	

OPTIONAL ACCESSORY

USB printer	5710-UPTER
Bluetooth printer	5710-BPTER
Power test box	5710-POBOX