



TIME TCS-520 Spectrophotometer



The TIME TCS-520 has a powerful performance configuration which makes professional colour measurement simple and effective. The unit boasts excellent inter-instrument processing, ensuring consistency of the measurement data between multiple devices. The TCS-520 can seamlessly transfer data via Bluetooth, allowing you to use the software with your Android or IOS devices.

The multi-function calibration base keeps the white tile protected when not in use, and when the instrument is placed on the base, it will be automatically charged and calibrated. The TIME TCS-520 greatly expands the application boundaries of colour spectrophotometers for a more user-friendly experience.

Features

- Automatic calibration
- Interchangeable apertures for different testing applications
- 20 options of colour indexes, and 26 options of illuminants
- Inter-instrument communication allows for consistency of readings
- Measures UV Included/ UV Excluded
- Interchangeable apertures of 11mm/6mm/1.3mm
- Multi-functional calibration base
- Mobile app allows for on-the-go adjustments and data transfer
- Integrated camera to verify the measurement area.

Technical Specifications

Model	TCS-520
Geometry	d/8 (diffused illumination, 8° viewing) SCI (Specular Component Included), SCE (Specular Component Excluded)
Light Sources	LED (Full Spectrum)
Colour Spaces and Indices	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB, Colour difference(ΔE^*ab , ΔE^*cmc , ΔE^*94 , ΔE^*00), WI(ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), YI(ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness (My, dM), Colour Fastness, Tint, (ASTM E313-00), Colour Density CMYK(A, T, E, M), Milm, Munsell, Opacity, Colour strength
Illuminants	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
Observer Angles	2°, 10°
Sensor	256 pixel CMOS Sensor
Calibration	Automatic
Wavelength Interval	10nm



Wavelength Range	400-700nm
Reflectance Range	0-200%
Reflectance Resolution	0.01%
Sphere Size	40mm
Repeatability	Chromaticity value: Max. :dE*ab< 0.04 Average :dE*ab< 0.03 Standard deviation within ΔE^*ab 0.02 (when a white tile is measured 30 times at 5-seconds interval) Reflectance: Standard deviation < 0.1%
Illumination Area/Aperture	MAV: $\Phi 8mm/\Phi 11mm$ MAV: $\Phi 4mm/\Phi 6mm$ MINI: 1*3mm
Inter-instrument agreement	$\Delta E^*ab < 0.2$ BCRA Series II , average measurement of 12 tiles, MAV/SCI)
Test Time	About 1s
Storage	APP mass storage
Battery	Rechargeable, 8000 continuous tests, 3.7V/3000mAh
Screen	IPS Full Colour Screen, 2.4 inches
Interface	USB, Bluetooth
Lamp Lifetime	10 years, 1 million tests
Language	English and Chinese
Software	Android, IOS, Windows
Pass Metrology	Yes, metrology level I
Camera	Included
Instrument Size	77.8mm x 53.2mm x 185.7mm
Weight	$\pm 300g$

Packing List

TIME TCS-520 Spectrophotometer
Instruction Manual
Power cable
Charging base

